

Vol. 5
No. 1

Green Thumb Newsletter

LAWRENCE A. LONG, President

DR. A. C. HILDRETH, Director (Emeritus)
Dr. Louis B. Martin, Director

HELEN M. VINCENT, Editor

DENVER BOTANIC GARDENS, INC. • 909 YORK • TELEPHONE: 297-2428 or 297-2632

Conservatory Superintendent, Ernest A. Bibee, 297-2810

Conservatory & Gift Shop, 1005 York St., 297-2348

JANUARY 1967

ARDENING TIPS FOR JANUARY

The weather has been delightful for people but plants and lawns would benefit from a good snow cover. With subsoil extremely low in 1966 should dry weather continue into the new year most shrubs, trees and lawns will need additional deep irrigation. Apply water only when temperatures are above freezing, ice coating plants and lawns can be damaging.

Save the Christmas Tree! Its boughs provide excellent protection for bulb beds, perennial borders and tender plants such as Mahonia aquifolium (Oregon grape), Yucca and kinnikinnick.

Move Large Trees Now. Hammock-sized trees can be moved safely with a ball of earth at any time until spring budding. Consult your nurseryman or experienced arborist.

Garden Drab? Winter gardens, too, can be attractive with wise use of evergreen trees and shrubs. Mahonia repens (native Oregon grape) and Vinca minor (myrtle) offer almost evergreen ground cover. Red and yellowtwig dogwoods, Siberian peashrub, birches afford color contrast for winter interest. Look around and make note of unusual plants for spring planting in your garden. Fruited trees and shrubs, bird baths and feeding stations not only attract birds but give gardens year around beauty. To encourage regular bird visits freshen bird baths daily with hot water.

Poinsettia Parade. More than 100 poinsettias (a gift of Park Floral Company) are blooming in living colors, red, pink, and white at the Boettcher Memorial Conservatory. Visit the Conservatory soon to enjoy and compare the amazing growth of the tropical and sub-tropical plants in their first year.

Yearn to learn about landscape design, rock garden construction, special plant families? The library at Botanic Gardens has the most comprehensive collection of horticultural books in this region. Members of Denver Botanic Gardens may

borrow most books for three-week periods. Bring your membership card for identification. The library's magazine rack offers many periodicals and catalogs for browsing. Sorry, they cannot be checked out.

House Plants Dry? Furnace heat coupled with Colorado's semi-arid climate causes house plants to dry out quickly. Check plants frequently. A shower in the tub or sink is especially beneficial to the plants at this time of year. Holiday plants demand the same general care as most house plants--cool temperatures, good light, adequate moisture, no drafts. A cool window out of intense sunlight is ideal. When the plant is dry, water it thoroughly. Do not overwater or let pot stand in water. When poinsettias begin to drop leaves, keep the plant going until all leaves have fallen. Then move the plant to a cool basement and water occasionally to hold until springtime planting outdoors. Check Nov.-Dec. 1964 Green Thumb for detailed cultural practices on poinsettias.

ANNOUNCEMENTS

The Denver Museum of Natural History in cooperation with the Thorne Ecological Foundation announces a series of 8 meetings on North American Landscapes presenting a changing panorama of climate, topography, geology, soil, plants and animals. Dr. Bettie Willard, Instructor. Classes are from 7:00 to 10:00 p.m. on the following Thursdays; January 26, February 2, 9, 16, 23, March 2, 9, 16 at the Denver Museum of Natural History. Individual Registration - \$25.00. Two-member family registration - \$39.00. Call 322-1808 for more information.

Los Angeles Tour of Botanic Gardens.

We find that the excursion fare of \$90.72 for the Los Angeles Tour in April, 1967 may not be used for return on Sunday, but would apply for return on Monday p.m., April 17. Another air fare, which will meet the tour schedule, will cost \$112.09 round trip. However, it is evident that the overall tour expense will not exceed \$200.00.

Boettcher Memorial Conservatory

New hours will be in effect as of Jan. 1, 1967, as follows: Weekdays 9:00 a.m. to 5:00 p.m.; Friday evening: 7:00 p.m. to 9:00 p.m.; Saturday and Sunday: 10:00 a.m. to 5:00 p.m.

We want to advise you of some new management plans at the Gardens which will begin to appear soon after Jan. 1.

1. New signs: These are intended to direct and to regulate the visiting public, their cars, pets, bicycles, etc.
 2. Uniformed guards: We will have 24 hour; seven days a week security.
 3. Donated or gift plants: a new procedure for accepting plants intended for either Conservatory or ground use.
 4. General touring of greenhouses:
New regulations which will aid both the public and our small staff (2).
- If you have gift boxes with fitted plastic covers the Associates' Gift Shop would like to have them.

NEWS ITEMS

1. Mrs. Beverly Pincoski has been promoted to the position of Botanist-Horticulturist. Her new duties will include labeling of our permanent plant collections.
2. A new plant society, "Mycological Society", has become an affiliate of the Gardens. D. H. Mitchell, M.D., is the unofficial president of this group. The herbarium collection of Mrs. Mary Wells and Dr. Mitchell, along with their library and extensive kodachrome slide collection will be placed in the Botanic Gardens House.

An annual meeting and dinner is being arranged for all members of Denver Botanic Gardens on January 31, 1967. You will be notified of time and place as soon as possible.

NEEDED: Applicants for position of Assistant Conservatory Superintendent. Men interested, and qualified, please contact Dr. L. B. Martin.

JANUARY CALENDAR OF EVENTS

- | | | | | | |
|----|------------|---|-----|------------|--|
| 3) | 9:15 a.m. | Sunburn & Blisters G. C. Social Hour - Conservatory Tour. | 10) | 10:00 a.m. | Herbarium Study-Herbarium. |
| | | | | 1:00 p.m. | Editorial Committee - Dining Room. |
| 5) | 10:00 a.m. | Associates Gift Workshop Main Room. | 13) | 7:30 p.m. | Dahlia Soc. - Main Room. |
| | 7:30 p.m. | Orchid Soc., Main Room | 17) | 12:30 p.m. | Rocky Mountain African Violet Council - Main Room. |
| | 7:30 p.m. | Men's Garden Clubs of Colorado - South Room, Conservatory. | 19) | 10:00 a.m. | Around the Seasons Club - Main Room. |
| 9) | 7:30 p.m. | Colorado Mycological Society - Main Room. | 20) | 7:30 p.m. | Botany Club - Main Room. |
| | 7:30 p.m. | Swingle Study Group, S. Room, Conservatory. (Dr. Martin, Speaker) | 22) | 2:00 p.m. | Colorado Cactophiles - Main Room. |
| | | | 27) | 10:00 a.m. | Ikebana International - Main Room. |
| | | | | 7:30 p.m. | Men's Garden Club of Denver - Main Room. |

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909 York Street, Denver, Colorado 80206

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Denver, Colorado

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FEBRUARY, 1967

GARDENING TIPS FOR FEBRUARY

Bud hunting, bird watching, enjoyment of colorful twigs and brilliant sunsets, these are February's treats for gardeners.

Check the Scales. If the weather warms late in February, check for scale. Apply dormant spray, either dormant oil or lime sulphur, to control oyster shell scale on lilac, cotoneaster, forsythia, dogwood, hawthorn, green ash or cottonwood. Elm scale and cottony-maple scale are controlled with the same insecticides.

Buy Now, Plant Later. New introductions of flower and vegetable seed should be ordered now. Purchase begonia tubers while selection is good. For early bloom, start tubers in late February. However, if starting is postponed at least until mid-March plants will be less spindly, less susceptible to wind damage and provide abundant bloom when the garden often lacks color. Start tubers in shallow trays of $\frac{1}{2}$ peat & $\frac{1}{2}$ sand, cover 1" above top of tuber. Store in dark, warm place and water just enough to keep moist (too much water causes rot). When sprouts are 1" to 1 $\frac{1}{2}$ " transfer plants to 4" pots containing equal parts of peat, sand and decayed cow manure. Place in warm, light location until planting outdoors.

Hurry Springtime. Force twigs of early flowering shrubs and trees such as forsythia, quince, almond, plum and crab-apple. Simply immerse stems in water in light room. An occasional fine spray of water to exposed stems will ensure plump buds and lush blossoms.

Grape Aid. For fruit production prune grape canes severely leaving 2 - 3 eyes on a prong. If pruning for an arbor or pergola remove all succulent growth from canes.

Check "Bulbs". Examine stored "bulbs" for moisture and dryness. If gladiolus, canna, dahlia or begonia are too moist, dry and repack. If too dry, slightly moisten the storage medium. Too much

warmth or moisture often causes early sprouting; move "bulbs" to cooler location.

Reminders. If storm-damaged trees have not yet been trimmed check the Jan.-Feb. Green Thumb for Ken Wilmore's tree repair instructions or call an experienced arborist. Tender-barked tree trunks may still benefit from protection to avoid sunscald. February's brilliant sunshine glaring on recent snow coupled with low temperature produces sunscald. Use commercial tree wrap, strips of cloth or a board placed to protect trunk from afternoon sun.

ANNOUNCEMENTS

Denver Botanic Gardens will sponsor a booth at the Colorado Garden and Home Show, February 4th through the 12th. It will be stocked with items for sale from the Gift Shop including a selection of art and craft items, books, flower arranging mechanics and accessories and other intriguing gifts. Hostesses will staff the booth to answer questions about the activities and purposes of Denver Botanic Gardens and to assist prospective members in joining the organization.

Mrs. Charles V. Petersen, who has handled much of the responsibility for the Gift Shop operation during 1966, has been appointed Chairman of the Gift Shop Committee. Having observed her previous capable handling of its affairs, we are confident that there could have been no better choice made.

The Green Thumb Newsletter - back issues are needed for the documentary file in the library: May through December, 1963; November, 1964 and January, 1965. If any member has kept a complete file and wishes to keep it intact, we can have these issues photographed and returned to the owner. This is very important and cooperation will be appreciated.

1967 Plant Sale Dates Announced.

May 12 and 13, Friday and Saturday preceding Mother's Day, were established as dates for the annual plant sale at a recent meeting of the Plant Sale Committee. Volunteers wishing to participate in this event may contact Mrs. Jess Gibson, chairman, at 794-0191 or Mrs. R. A. LeMassena at 922-0357. Last year 279 volunteers served before, during, or after the sale.

Books missing in Library: Source Book of Biological Terms, Axel Melander; New Pronouncing Dictionary of Plant Names, 1939, Robinson; 10,000 Garden Questions Answered, 1959, Rockwell; Short History of The Rancho Santa Ana Botanic Gardens, Munz; Landscaping Your Own Home, 1955, Dustan; Foundation Planting, Johnston;

Ideas for Landscaping Your Home, Sunset; New Introduction to Biology, 1938, Kinsey; Flowers, Prints, Seeds, 1941, Parker; Root Development, 1926, John E. Weaver; Plant Disease Fungii, 1925, Frank L. Stevens; Did you Know?, 1944, Clark; Yukon Wild Flowers, Black; Album of our Wild Flowers, Garbriel Sons & Co.; Important Plants on National Forest Ranges, Eastern Oregon and Eastern Washington, Reid; Oklahoma Flora, Stemen; Rust Resisting Cantaloupe, Blinn; Some Common Colorado Wild Flowers, Harold Roberts; Flora de Colorado de Montana, 1900, LaGrande; Trees of South Africa, 1961, Palmer; A Pocket Guide to Trees, Platt, R.; Tree Guide, Rogers; Trees of Brazil; Michigan Trees Worth Knowing, Smith; Plant for The Plains, (Reprint from Green Thumb, March, 1947); Growing Roses, Norris;

CALENDAR OF EVENTS Month of February

- | | | | |
|---------------|--|----------------|--|
| 1) 1:00 p.m. | Botany Class - Dr. Martin
Conservatory South Room | 14) 10:00 a.m. | Herbarium Study Group -
Herbarium |
| 2) 10:00 a.m. | Gift Shop Workshop, Main Room | 2:00 p.m. | Editorial Committee -
Dining Room |
| 7:30 p.m. | Denver Orchid Society | | |
| 3) 12:30 p.m. | Civic Garden Club Luncheon and
Meeting | 15) 1:00 p.m. | Botany Class - Dr. Martin
Conservatory South Room |
| 6) 7:30 p.m. | Open Space Council-Main Room | 16) 10:00 a.m. | Around the Seasons Club -
Main Room |
| 7:30 p.m. | Swingle Study Group-Conservatory
South Room | 17) 7:30 p.m. | Botany Club - Main Room |
| 8) 1:00 p.m. | Botany Class - Dr. Martin
Conservatory South Room | 22) Holiday | House Closed |
| 9) 7:30 p.m. | Denver Rose Society - Main Floor | 24) 10:00 a.m. | Ikebana International -
Main Room |
| 10) 7:30 p.m. | Dahlia Society - Main Room | 7:30 p.m. | Men's Garden Club of Den-
ver - Main Room |
| 13) 7:30 p.m. | Colorado Mycological Society
Main Room | 26) 2:00 p.m. | Colorado Cactophiles -
Main Room |

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MARCH, 1967

GARDENING TIPS FOR MARCH

Quiet skies and warm, gentle sunshine flirt with winter's furious blasts, brave little blossoms signal March's arrival, but how long will springtime last? In Colorado, seasoned gardeners anticipate these winter extremes and plan their activities accordingly.

Construction Ahead. Blustery days suggest landscape planning, consultations with nurserymen and landscape architects. Warm days invite construction of patios, fences, rock gardens, retaining walls and garden walks. Important jobs are painting patio furniture, cleaning tools and getting garden machinery in good working order.

Feeding the Borders. Prepare beds for flower borders by spading soil 8-10" deep and adding 2-3" of decayed, pulverized cow manure or compost. Mix well and irrigate to settle. If the soil is gumbo, you need sympathy plus 1" fine sand and 2" compost and manure. Mix well.

Grow with Pride. Although healthy young plants are available in local garden shops and at the Denver Botanic Gardens Annual Plant Sale in early May, gardeners often delight in growing plants from seed. As soon as the soil is workable many perennials can be planted directly into permanent beds. Alyssum saxatile (basket of gold), Platycodon (balloon flower), delphinium, lupine and columbine are a few. Later in the month hardy annuals may be planted where they are to blossom. These include sweet alyssum, cornflower, larkspur, California poppy, annual pinks, candytuft, China aster, Portulaca (moss rose), annual phlox and verbena. Most of these will endure light frost. After the seed is sown, moisten the seed bed, mulch and keep moist to maintain the plants.

Proceed with Caution. Spring cannot be far behind--another snowstorm, that is, so do not remove mulch at all in March. Later in the season remove it gradually. Unless you can recognize fruiting spurs, arrange to have fruit trees pruned by an experienced tree man. While deciduous trees may still be pruned, the "bleeders"--birch, walnut, apple--should not be trimmed now.

Bulbs Dry? If dry winds are frequent and little moisture falls, spring bulbs will benefit from thorough, deep irrigation.

Something New. Try the new dwarf, bush or "Knee-Hi" sweet peas. Adventurous gardeners found last year's trials most rewarding.

Tried and True. The favorite method for growing old-fashioned sweet peas is to plant seed 2" deep in light loam as early as the soil is workable. Or play it cool, provide a cool root run for these standards, plant seed in a trench 6" deep. As the plants grow, gradually fill the trench with soil.

Head Start on Insects. On warmer days when temperatures will reach at least 60 or 65 degrees, apply dormant spray to evergreens to rout aphid, scale and red spider.

Think Young. Perhaps overgrown trees and shrubs should be replaced to keep the landscaping in scale with your home. Remove the offending plants and their surrounding soil. Replace with new soil. Prepare planting holes big enough to accommodate the roots without crowding. Balled evergreens transplant easily now. Order nursery stock for April delivery.

ANNOUNCEMENTS

Los Angeles Tour of Botanic Gardens originates at Farmer's Market, 12 noon, Friday, April 14, 1967. Reservation deadline is March 24. Contact Mrs. Alice Willis - 297-2428.

Second Education Committee Lecture. ^{Wednesday} March 8, at Boettcher Memorial Conservatory - 8:00 p.m. Dr. Beatrice E. Willard, Executive Director of Thorne Ecological Foundation, will give an illustrated talk on Botanic Gardens of Europe. Tickets are \$1.00 - available at Botanic Gardens House. Only 100 seat capacity.

Our thanks to the Associates of Denver Botanic Gardens who staffed the booth at the Garden and Home Show. Under the skilled guidance of Committee Chairman Mrs. C. V. Petersen and with the help of Mr. Petersen, Mrs. Robert M. Kosanke, Mrs. Graham Morrison, they did a magnificent job. They prepared, staffed and equipped the booth and our hats are off to: Hazel Moore, Mrs. Kosanke, Mrs. Morrison, Mrs. Lucien Pope, Mrs. Carl Smith, Mrs. Elinore Swartz, Mrs. T. D. Thompson, Mrs. Robert Welty, Jerome Dingerson, Frank Keppelman, Gene Milstein, C. Edward Ridenour, Pat Sidwell, the

Herb Fransons, the Shelborn Hendricks and the C. C. Petersens.

The Colorado Gladiolus Society will hold its Annual Bulb Auction at Botanic Gardens House on Saturday, March 18, 1:00 - 5:00 p.m. The public is invited. There will be a choice selection of fine bulbs including many of the latest varieties. Prices are always reasonable.

Garden Workshop sponsored by Colorado University Extension Service: 8:00-9:15 p.m. at the May-D&F stores on the following dates: (Open to the public, free of charge) March 6 (Westland) 7 (Bear Valley) and 8 (University Hills) - New Trends in Weed Control and Your Lawn Can Use a Face Lifting; March 13 (Westland) 14 (Bear Valley) and 15 (University Hills) - Pruning Rejuvenates Your Garden and You Can Root Your Own; March 20 (Westland) 21 (Bear Valley) 22 (University Hills) - Selected Plants for

Small Gardens and Personalize Your Garden with a Rock Garden Pool; March 27 (Westland) 28 (Bear Valley) 29 (University Hills) - Landscape Your Garden with Roses and Perennials for All-Season Color. Instructors for the Workshop are: County Agents James Adams, Herbert Gundell, Alvin Lesser, Larry Watson and Pat Gallavan, Denver Mtn Parks Director, and Dr. James Feucht, Area Horticulturist.

Mrs. Elna Gibson's many friends will be delighted to learn that she is recuperating from the injuries she recently sustained. She is aided by the good wishes of all who know her. We suggest that you do not attempt to call her regarding the Annual Plant Sale. Call Mrs. Le Massena at 922-0357.

DON'T FORGET THE ANNUAL PLANT SALE AT DENVER BOTANIC GARDENS - FRIDAY AND SATURDAY, MAY 12 AND 13.

CALENDAR OF EVENTS - MARCH 1967

- 1) 9:00 a.m. Home Horticulture Short Course
Main - Dr. Feucht
1:00 p.m. Botany Class - Conservatory
South Room - Dr. Hugh Pote
- 2) 10:00 a.m. Gift Shop Workshop - Main
7:30 p.m. Orchid Society - Main
- 6) 7:30 p.m. Open Space Council - Main
7:30 p.m. Swingle Study Group - Dining
- 8) 9:00 a.m. Home Horticulture Short Course
Main - Dr. Feucht
1:00 p.m. Botany Class - Conservatory
South Room - Dr. Helen Zeiner
7:30 p.m. American Society Landscape
Architects - South Room-Cons.
8:00 p.m. Dr. Beatrice Willard - Botanic
Gardens of Europe - Main
- 9) 7:30 p.m. Denver Rose Society - Main
- 0) 7:30 p.m. Dahlia Society - Conservatory
- 3) 7:30 p.m. Colorado Mycological Soc. -Main
- 4) 10:00 a.m. Herbarium Study Group-Herbarium
1:00 p.m. Editorial Committee - Dining

- 15) 9:00 a.m. Home Horticulture Short Course
Main - Dr. Feucht
1:00 p.m. Botany Class - Cons.-Dr. Zeiner
- 16) 10:00 a.m. Around the Seasons - Main
- 17) 7:30 p.m. Botany Club - Main
- 18) 1:00 p.m. Gladiolus Soc. Bulb Auction - Main
1:00 p.m. African Violet Judges - South Room
Conservatory
- 20) 9:00 a.m. Extension Service Custodial Work-
shop - Main - Dr. Feucht
- 21) 12:30 p.m. African Violet Council - Main
- 22) 9:00 a.m. Home Horticulture Short Course
Main - Dr. Feucht
- 24) 10:00 a.m. Ikebana International - Main
- 29) 9:00 a.m. Home Horticulture Short Course
Main - Dr. Feucht
- 26) The regular meeting of the Colorado Cactophile
will not be held at Botanic Gardens House; It
will be held at the home of Mrs. H. Wiener
1161 Holly St.

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APRIL, 1967

GARDENING TIPS FOR APRIL

Anticipated ¹⁰⁻²and precipitation are the gardener's concern now. April may bring showers, drought, or deep wet snow to Colorado. Promised May flowers need lots of moisture. Water spring bulbs deeply and mulch with peat to conserve moisture.

Grow Your Own jolly, good vegetables. This month plant peas, lettuce, spinach, onion, carrot, parsnip and radish.

Divide to Multiply is simple garden arithmetic. Perennials may be divided now. Phlox, shasta daisy, daylily, painted daisy, fallaster, chrysanthemum and others should be divided at least every third year.

Arbor Day is April 21 in Colorado this year. Plan a present for the future by planting one carefully selected tree in your garden, neighborhood school or park. Seventy-five years ago *Picea pungens* (Colorado blue spruce) was chosen our state tree.

Plant Now shrubs, trees, evergreen and roses. Plant balled and burlapped trees in a hole 1½ times the size of ball deep enough to cover burlap. With container-grown plants the dealer should cut the can. Remove container before planting and retain original soil level on ball. Bare-root trees and shrubs should be planted as early as possible in a hole big enough to receive the roots natural spread. Small trees should be staked. Delay fertilizing new plantings until the second year. Water in thoroughly.

Night Crawlers and Nematodes. Apply half the recommended dosage of chlordane to lawn in the evening (cuts evaporation). Then water enough to wash the solution off the foliage and into the soil — the worm has turned. If nematodes are destroying primroses spray surrounding soil with the same mixture.

A Rose Is a Rose? Types, sizes, colors and varieties are numerous. Guidance in selecting and maintaining roses is given in "Rose Culture in the Denver Area," a special issue of The Green Thumb magazine. Use this reference. This magazine is for sale at the conservatory gift shop.

Reminder. Apply pre-emergence treatment for crabgrass and certain other lawn weeds. Lawns seldom benefit from hard raking unless clippings were left to form thatch, then use of a power rake is recommended. Otherwise, rake lightly to remove loose trash.

Glad Tidings. Begin planting gladiolus corms which have been treated for thrip with DDT powder. Plant 6" deep to avoid staking.

Tulip and Daffodil Display. Although the bulb tests were completed last year about 18,000 spring bulbs have begun flowering at The Denver Botanic Gardens and should continue their display into early May.

ANNOUNCEMENTS

Meet the Natives by M. Walter Pesman, 7th Edition, Rev., will soon be off the press and will be available in the Conservatory Gift Shop.

Denver Botanic Gardens 1967 Committee Chairmen: Mrs. Frank McLister, House (322-2663); Miss Lucy M. Crissey, Library (297-2428); Mrs. William Stanley, Membership (771-3617) and Mrs. Robert L. Guthrie, Co-chairman (355-6280); Mr. Harley Higbie, Jr., Planning (623-8791); Mrs. Jess Gibson and Mrs. Ed Honnen, Co-chairmen, Plant Sale. Call Mrs. Graham Morrison for information, (424-0706); Mr. Charles C. Nicola, By-Laws (222-3795); Mrs. James Layden (333-0059) and Dr. John Durrance (333-1721) Children's Garden Co-chairmen; Mrs. Vittetoe (322-6759) and Mrs. Max Garrett (825-0607) Children's Garden Supervisors Co-chairmen; Mrs. William Crisp, Editorial (333-4897); Dr. Wayne Christian, Education (266-2182, Ext. 42); Mrs. Brown W. Cannon, Entertainment (722-7575); Lawrence A. Long, Executive (255-2073); Mrs. William Russell (733-6438) and Mrs. Thomas Payne (388-4944) Garden Tour Co-Chairmen; Mrs. Ed. Honnen, Gifts and Memorials (781-8737); Dr. Helen M. Zeiner, Herbarium (722-3655). This list will be reprinted in a forthcoming issue of *The Green Thumb*.

1967 Prelude to Spring will be presented by the C.S.U. Horticulture Club on the campus at Fort Collins April 7 through the 9th. April 7: 2:00 - 10:00 p.m.; April 8: 9:00 a.m.-10:00 p.m.; April 9: 12 noon-4:00 p.m. There will be many interesting, educational features regarding lawns, gardens and plant care. Lectures will be given by well-known experts from this area.

Illustrated lecture on Denver Botanic Gardens by **Dr. Louis B. Martin, Director**, April 5, 8:00 p.m. Main room, Botanic Gardens House. Tickets \$1.00, available at Botanic Gardens House.

Plant Sale — As always we need a large number of various sized boxes and crates such as: strawberry crates, flat beer boxes and others of reasonable size. Bring them, stacked, during the week of May 8th to Mr. Long's summer house through the Gaylord driveway, 9th and Gaylord.

Plant Sale Personnel will attend an orientation meeting Wednesday, April 26, 9:30 a.m., in the Conservatory South Room. This involves special training and other instructions. Coffee and doughnuts will be served.

Denver Dahlia Society — sale of tubers at Boettcher Memorial Conservatory, Sat., April 15, 2:00 p.m. Many varieties available: giant, medium, miniature decorative and cactus types. Limited quantities of pompons, collarettes and orchid dahlias. Profits from the sale are used by the club for the promotion of dahlia growing and maintaining the dahlia plot at Denver Botanic Gardens. Public invited.

What Plant is That? A class in how to identify Colorado plants from April 27 through June 10, 1967 presented by the Denver Museum of Natural History. The nine sessions include two evening classes at the Museum and seven field trips. Open to all who are interested. Dr. Bettie Willard, instructor. Individual Registration: \$35.00; Two member family: \$56.00. Call 322-1808 for more information.

Congratulations to Al Foster of Kroh Brothers Nurseries who received this year's award for "outstanding achievement in horticulture," presented by the Colorado Nurserymen's Association.

The Denver Rose Show is scheduled for Sunday, June 25 at the Denver-U.S. National Bank.

The Civic Garden Club presented a beautiful American flag to Dr. Martin for use in Botanic Gardens House on February 3. Following luncheon at the House, the members of the club conducted an inspiring ceremony in reverence to the flag, which was then presented to Dr. Martin by club president, Mrs. McQuain.

Small tree, some ground cover - leafy Sargassum

1/2 A 1/2 A Research? plants? we need to be further along
B.T. Dulles' botanical use of Amer. Botany - research

CALENDAR OF EVENTS — APRIL, 1967

- 3) 9:00 a.m. Gift Shop Comm., Cons. South room
- 7:30 p.m. Open Space Council — Main
- 7:30 p.m. Swingle Study Group — Dining
- 5) 10:00 a.m. Gift Shop Personnel — Main
- 8:00 p.m. Lecture: Denver Botanic Gardens, Dr. Martin, Main Room
- 6) 10:00 a.m. Gift Shop Workshop — Main
- 7:30 p.m. Denver Orchid Society — Main
- 7) 12:30 p.m. Civic Garden Club Tea — Main Floor (Preceded by Business meeting)
- 10) 7:30 p.m. Colorado Mycological Society — Main
- 11) 10:00 a.m. Herbarium Study Group — Herbarium
- 1:00 p.m. Editorial Committee — Dining
- 13) 10:30 a.m. Morning Belles Garden Club
- 8:00 p.m. Denver Rose Society — Main floor

- 14) 9:30 a.m. Perennial Garden Club — Conservatory Tour
- 15) 2:00 p.m. Dahlia Society Tuber Auction — Conservatory Garage
- 17) 12:30 p.m. Auxiliary to the Denver Medical Society — Meeting — Tour — Tea — House and Conservatory
- 20) 10:00 a.m. Around the Seasons — Main
- 21) 7:30 p.m. Botany Club — Main
- 23) 2:00 p.m. Colorado Cactophiles — Main room
- 26) 9:30 a.m. Plant Sale Orientation Meeting — South Room
- 28) 10:00 a.m. Ikebana International
- 7:30 p.m. Men's Garden Club of Denver — Main room

Library - 5755 15th - only library of this type - Bot - flowers
Feinberg - much plant specimens
W.P. - public or university school records

DENVER BOTANIC GARDENS, INC.
 909 York Street, Denver, Colorado 80206

Art collection - Gottschalk
indoor museum from air photos compared to site

DG. Unique in location & location
900 m - E. St Louis, MO - from J. Roth

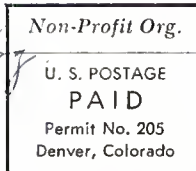
750 m from S.W. 1300 m to S. San Francisco
Went in Swt. State all the way to Mexico - to - California

Public - Private management - B. Parks & R. Hoff - salaries for city & Co. of D.
also Ken B. G. Corp - Bdy Foster -

6000 prop - companies in the G. B. M. S. from to Sept. m. to S. the Sec.
74 st. 102 A - 1000 Park 1 garden in City P. B. in a beautiful spot

Other Programs
Formal - Children's Garden Day - Dr. M. M. Smith
Gift shop - Ken. AS - B. T. Sem
100 min - enough space but not for
for. Cushman?

Mrs - 2 paper Plant Society
Public list
Dulles
and mycology - long. As Dulles
around the seasons (32)
15A p.m. from me - Public list -
Health Recd - July Study Plan
order of C. I. D.



Gravel - Hot - Good
Garden Tam, H. Morgan
Plant sale

LAWRENCE A. LONG, President

Dr. Louis B. Martin, Director
Dr. A. C. HILDRETH, Director Emeritus

HELEN M. VINCENT, Editor

DENVER BOTANIC GARDENS, INC.

• 909 YORK •

TELEPHONE: 297-2428 or 297-2632

Conservatory Superintendent, Ernest A. Bibee - 297-2810

Conservatory and Gift Shop, 1005 York Street - 297-2348

MAY, 1967

GARDENING TIPS FOR MAY

Newcomers call it madness, but oldtimers call it spring. Despite winter's dramatic encore the flowers that usually bloom in May continued to bloom in April, fully two weeks early. Ah, spring!

Feed and Weed. Fertilize lawn with a balanced commercial fertilizer containing or supplemented with iron compound. If the lawn was fed late last fall it probably does not need fertilizing at this time. Many effective weedicides are on the market. Dandelions respond best to chemical treatment after they have made considerable top growth and the weather is warm. Wait for a calm day.

Short Cut for dead grass. Late last fall grass made extra growth which died during the dry winter months. These brown areas may reappear with each mowing but can be eliminated by setting the mower blades at 1 - 1½" for the first cutting. Then reset the blades at 2½" for the season ahead.

Sow or Sod. May and June are good months to establish a new lawn. Grade for drainage away from the house. Spread about 2" well-rotted cow manure over the area, rototill 8-10" deep. Water to settle. Let the surface dry, then rake and smooth. Sow seed and rake again lightly. Apply a light top dressing of ground rotted manure or peat. Water and keep moist. For sodding call any reputable dealer. For major repair of old lawn proceed as above or resod. For minor repair simply rough up, rake, sow, top-dress and keep moist.

Delight Dahlias. Spade soil enriched with well-rotted manure about 12" deep. Plant the root in a hole about 6" deep and cover with 2" of soil. Stake. As the plant grows continue filling the hole. Dahlias love moisture and sun.

Medicare for Evergreens. Scores of large evergreens are starving for food and water. Trim any dead branches and rake dead needles beneath the tree. Then spread 2-3" well-rotted ground manure under the branches and around the tree's perimeter, spade this material under 2-4" and water very deeply. Renewed vitality and vigor is the reward.

Tender Annuals, Vegetables and tuberous begonias should be planted the latter part of May. Buy compact, sturdy plants. If plants are greenhouse-grown harden them first by plunging the containers into a trench and water as needed for a week prior to planting into the garden.

Pine Tip Moth. If candles on ponderosa, foxtail, limber or eastern white pine have been destroyed in past seasons pine tip moth is probably the pest. An effective control is a mixture of malathion and DDT applied between May 10 and 25 (when the candles are fully extended and needles have started to grow).

Control Hackberry Nipple Gall? It's a cinch if you spray before an inch. Before leaves have reached an inch in size, spray with a solution of Sevin. BEWARE: Hackberry is sensitive to DDT (so is privet).

Aphid and Red Spider. If evergreen branches begin to fade in color, often browning outward from within, and heavy webbing is apparent red spider is usually the offender. Generally, if browning occurs from the tips inward aphids are attacking. Control with a compatible mixture of malathion and tedion. CAUTION: Malathion is detrimental to canaert juniper.

Spruce Gall Aphid if not controlled with a dormant spray can be treated with malathion just as the needles are ready to open (normally May 1-15). Brown spiny galls on the tips of branches indicate presence of this pest.

ANNOUNCEMENTS

REMEMBER THE PLANT SALE: May 12 and 13, 9:30 a.m. to 5:30 p.m.

Herb vinegar: The Denver Botanic Garden Guild has a limited amount of herb vinegar left. It may be ordered from Mrs. John Falkenberg, 322-4862, at \$1.00 per bottle.

Denver Artists Guild will exhibit oil and water color paintings in the South Room of Boettcher Conservatory from May 27 through June. Open to the public at no charge.

Lectures: "A Biologist Looks at Horticulture and Agriculture in the Far East" is the title of an illustrated talk by Dr. Jeanne d'Arc Schleicher, Professor of Biology at Loretto Heights College, May 17, 8 p.m., South Room, Boettcher Memorial Conservatory. Tickets \$1.00.

A series of field trips to learn native wild flowers, trees, and shrubs will start Wednesday, May 10, and will continue at two week intervals if there is sufficient interest. Trips will leave Botanic Gardens House promptly at 8:30 a.m. and will return about noon. You will be expected to provide your own transportation. If this is impossible, request transportation at least two days in advance. Call 322-1808 (Museum of Natural History) or 297-2428 by Tuesday, May 9, to register for the first trip. Leaders

include Dr. E. H. Brunquist, Dr. Helen Zeine Dr. Bettie Willard and Dr. James Feucht.

Region 20 of the American Iris Society will host the National AIS Convention in Denver May 31-June 4. The guest iris beds at Denver Botanic Gardens will be a feature of this occasion as well as the Rainbow Iris beds in City Park. Many individual members will also open their gardens to guests in and around the area. A complete list of these gardens will appear in the May-June issue of The Green Thumb. Region 20 will also present an iris arrangement show at the Boettcher Memorial Conservatory on Saturday, June 3 from 12:00 noon to 5:00 p.m. and Sunday, June 4, from 12:00 noon to 4:30 p.m.

"Colorado, Nature's Land of Colorful Contrasts" will be presented by the 4 C's Camera Club, June 8, 8:00 p.m. Boettcher Memorial Conservatory. Tickets \$1.00.

CALENDAR OF EVENTS - MAY 1967

- | | | | |
|---------------|--|----------------|---|
| 1) 10:00 a.m. | Gift Shop Committee, South Rm. Conservatory | 17) 12:00 noon | Civic Garden Club, Div. B. Meeting Tour-Sack Lunch |
| 2) 7:30 p.m. | Swingle Study Group-Dining Rm. | 17) 8:00 p.m. | Lecture by Dr. Jeanne d'Arc Schleicher-South Rm-Cons |
| 2) 4:00 p.m. | Children's Garden Beginners Class, Conservatory Garage | 18) 10:00 a.m. | Around the Seasons Club-Main Room |
| 4) 10:00 a.m. | Gift Shop Workshop-Main Rm. | 7:30 p.m. | Rose Society-Downstairs Facilities |
| 4:00 p.m. | Children's Garden Advanced Class, Conservatory Garage | 19) 7:30 p.m. | Botany Club-Main Room |
| 5) 11:00 a.m. | Civic Garden Club Business Meeting Luncheon-Dining & Main Room | 23) 10:00 a.m. | Library Committee-Library |
| 8) 7:30 p.m. | Colorado Mycological Society Main Room | 2:00 p.m. | Library Comm. Colorado Woman's College-Tea-Tour Lecture |
| 9) 10:00 a.m. | Herbarium Study Group | 25) 7:30 p.m. | Sod Growers Assoc.-Dining |
| 4:00 p.m. | Children's Garden Beginners Class, Conservatory Garage | 26) 10:00 a.m. | Ikebana - Main |
| 2) 9:30 a.m. | Annual Plant Sale | 7:30 p.m. | Men's Garden Club of Denver Downstairs Facilities ✓ |
| 3) 5:30 p.m. | Annual Plant Sale | 27) All Day | Denver Art Guild Display Conservatory |
| 6) 12:30 p.m. | African Violet Council-Main Rm. | 28) 2:30 p.m. | Colorado Cactophiles-Main |
| 1:00 p.m. | Editorial Committee-Dining Rm. | | |
| 4:00 p.m. | Children's Garden Beginners Class-Conservatory Garage | | |

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DR. A. C. HILDRETH, *Director Emeritus*HELEN M. VINCENT, *Editor*

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Conservatory and Gift Shop, 1005 York Street — 297-2348

JUNE 1967

GARDENING TIPS FOR JUNE

"Happiness" is a garden dazzling with June blossoms, free of weeds, insect pests and threat of hail.

June Dividends. Interest rates high in the 1000 guest iris blooming at the York Street Unit as part of the American Iris Society convention. In addition, 1500 named iris varieties are blooming in the permanent planting as well as timely displays of poppies, roses and daylilies. Denver Botanic Gardens' main display of roses blooms later this month at the City Park Unit and wild flowers promenade the foothills. Yes, bank on June for flowers.

Planting Continues for container-grown roses, trees, shrubs and perennials. Tender annuals, vegetables, tomatoes and begonias can be planted safely now.

Perennial Thoughts. Thin out coarse-growing perennials. Feed, cultivate and mulch borders. Delphinium and shasta daisy stalks should be cut to the ground for second bloom. Leave foliage on peonies and iris undisturbed. Remove faded iris stalks with a quick yank.

Prune for Bloom. Flowering trees and shrubs should be trimmed after blooming for form and formation of new flower buds. Prune back all old flower wood on lilacs to encourage new growth and healthy new flower buds. Removing some of the scraggly wood on older shrubs will improve their vigor.

Prune Soon. Maple, birch, walnut and linden should be trimmed during summer months. Although linden is not termed a "bleeder" it, too, heals better at this season.

Evergreens, Shear Fun. Juniper scopulorum and its relatives can be sheared for shape and dense growth. Do NOT shear spreading junipers as tamarix, savin and pfitzer. Instead, cut tips back to desired height to a lateral branch, then cut lateral back about half.

Pine and Spruce Candles can be broken in half when the needles on the candle begin to spread. This practice promotes density and keeps plants in scale.

BUG PATROL*

Leaf Rollers arrived two weeks ago. If plants have not been sprayed, treat immediately with isotox plus 1% DDT. CAUTION: Do not treat Bechtel crab-

apple, hackberry or privet hedge with DDT, all are DDT sensitive.

Oystershell Scale, if not treated when dormant, can be controlled in the crawling stage, but timing is critical. Spray June 3 plus or minus 4 days with a solution of isotox plus 1% DDT.

Slugs, Sow Bugs, Cutworms. Treat immediately with zectran applied to the soil with a hose sprayer.

Lilac Leaf Miner, so devastating last year, treat with DDT and malathion June 1 and July 1.

Aphid and Red Spider. Control with isotox.

Ants and Grasshoppers. Use 5% chlordane.

Leaf Slugs on hawthorn, cotoneaster, plum and cherry, spray July 1 and August 1 with isotox or malathion.

Oregongrape, both Mahonia repens and M. aquifolium, should be treated with a preventive systemic insecticide such as meta-sistox applied early in June and again in August. Less effective control for its pests is malathion applied at 3-week intervals beginning July 1.

Flea Beetles on radish, turnip, eggplant, sweet alyssum and others can be safely controlled with Sevin.

Blister Beetles attack honeylocust, gold rain tree, golden chain, peashrub, Kentucky coffee, leadplant, lupine and other members of the pea family. These grey insects can defoliate a plant almost instantly. If they appear spray with DDT immediately.

*TRADE NAMES MENTIONED ARE INTENDED FOR INFORMATION, AND ENDORSEMENT IS NOT IMPLIED.

ANNOUNCEMENTS

The Denver Rose Society will present the **Annual Rose Show** on Sunday, June 25 — Denver-U.S. National Bank, 1:00-5:00 p.m. Public is invited. No charge. An innovation this year is a Novice Class in which participants may not be a member of any Colorado rose society. Trophies and ribbons will be awarded. Information and schedules for it may be obtained by calling Dr. W. Kirkley, 237-8658, or Joan Franson, 422-3580.

The **Rocky Mountain African Violet Council** will conduct a question and answer session on the culture of African violets at 1:00 p.m. in Botanic Gardens House — Tuesday, June 6.

Arapahoe Rose Society presents its show: **Around the Year with Roses.** Sunday, June 18, at the Englewood City Hall Auditorium, Hampden Ave. and Elati St., from 1:00 to 5:30 p.m. Open to the public —no charge.

1500 ruffled, yellow Kelly Girl Gladiolus bulbs will be presented at ceremonies on Sunday, June 4, 2:00 - 2:30 p.m., at Denver Botanic Gardens, 909 York St. Mr. Ray Tillery, area manager of Kelly Services, Inc., will present the bulbs to Mayor Thomas Currigan for planting in the Gardens. Public is invited. Denver Kelly Girls will be on hand to plant the first bulbs.

Field trips to identify native wild flowers will continue. Next expedition will be on Wednesday, June 7, at 8:30 a.m. from Botanic Gardens House.

The library in Botanic Gardens House will be closed on Saturdays, June 3 and 10.

New Books in Library

Henry Gestefield has produced: **A Thousand and More Professional Do's and Don't for the Ambitious Gardener.** It is also available in the Gift Shop for \$3.50. Mr. Gestefield has been well known in Denver gardening circles for many years. He presents his material in easily readable, short sentences advising the do's and don'ts on almost every gardening question which could arise.

George Kelly: **Rocky Mountain Horticulture** (formerly Rocky Mountain Horticulture Is Different and How to Have Good Gardens In the Sunshine States) has been reprinted. It has not been available for some time. The many people who have called to inquire about it will be able to buy it at the Gift Shop. Price: \$4.00.

CALENDAR OF EVENTS — JUNE 1967

- 1) 10:00 a.m. Gift Shop Workshop - Main Room
7:30 p.m. Orchid Society - Main Room
- 3) 12:00 noon Iris Show - Conservatory
- 5) 7:30 p.m. Open Space Council - Main Room
7:30 p.m. Swingle Study - Dining Room
- 6) 1:00 p.m. African Violet Council-Main Rm.
7:30 p.m. Landscape Architects - Dining Rm.
- 7) 1:00 p.m. Conservatory Tour Guides —
and 7:30 p.m. South Room
- 8) 8:00 p.m. Denver Rose Society - All Down-
stairs Facilities
8:00 p.m. Four C's Camera Club Slide Show
Conservatory South Room
- 9) 7:30 p.m. Dahlia Society - Main Room
- 12) 8:00 a.m. Start Botany Classes — Monday -
Friday, through August 4. Public
School Students. Dr. Ken Miles.
Conservatory South Room
7:30 p.m. Colorado Mycological Society -
Main Room
- 13) 10:00 a.m. Herbarium Study Group
10:00 a.m. Library Committee - Library
1:00 p.m. Editorial Committee - Dining Rm.
- 16) 7:30 p.m. Botany Club - Main Room
- 23) 10:00 a.m. Ikebana International - Main Rm.
7:30 p.m. Men's Garden Club of Denver -
All Downstairs
9:30 a.m. Ikebana Arrangements and Judg-
ing - Conservatory South Room

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Green Thumb Newsletter

Volume 5 - Number 7

HELEN M. VINCENT, Editor

DENVER BOTANIC GARDENS, INC.

909 YORK

TELEPHONE 297-2547

JULY 1967

GARDENING TIPS FOR JULY

And the rains came! With them come magnificent displays of wild flowers plus an extravaganza of mushrooms and toadstools to delight the storm-weary gardener. But now for the humid side of the news:

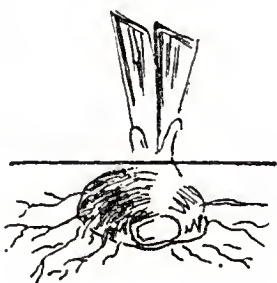
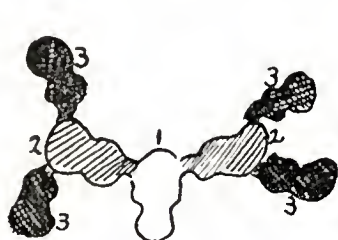
Come in, Sun! Trees, shrubs and roses severely damaged by wind and hail should be cut back. Badly bruised or broken branches should be removed. Unruly succulent growth, especially on grapes and shrubs should be eliminated.

Problems in the Grass Roots. (See A)

Mildews and Don'ts. Mildew, a white, powdery substance easily seen, may affect roses, many perennials, and especially zinnia, delphinium, and fall aster. Control is with micronized sulphur, such as Karathane*, or reliable dusting sulphur. Caution: avoid sulphur drifting to viburnums—no leaves!

Cultivation. Heavy rain and hail cause crusting in the garden. Light or shallow surface cultivation will permit air circulation stimulating root action. If soil is too hard to cultivate or if it breaks into big pieces uprooting young plants sprinkle the ground lightly before cultivating.

The Great Divide — Iris. July and August are preferred months for planting and dividing iris. Cut iris foliage to 6-8" for convenience in handling, plant and barely cover the rhizome with soil as illustrated. Spread the roots out and down to give a good anchor. Water well. In dividing old clumps notice the growth pattern as shown. Remove the first year's growth and, perhaps, the second or even third, depending on plant age and vigor. Foliage on undivided plants should not be disturbed. Refer to your May-June Green Thumb for complete cultural instructions.



Roses will appreciate a feeding of well-balanced fertilizer as 5-10-5 plus a handful of iron sulphate per plant. Surface cultivate and water thoroughly. Cut stems with spent blossoms to the first five leaflets.

Insects, the Pests. Cool weather has deterred pests. If weather moderates, check plants for aphids which occur in a variety of sizes and colors. Black ones are conspicuous on pinyon pine, viburnum, cherry, mahonia; green on rose and shasta daisy; red on delphinium, tomato and juniper. Treat with malathion or isotox. Red aphid is often confused with red spider, which is usually grey or brown and microscopic in size. Susceptible to red spider are phlox, rose, potentilla, thimbleberry, juniper (especially sheared forms) and other plants. Do not use isotox on sheared evergreens; preference is given to malathion with a miticide such as kelthane. Canaert juniper is sensitive to malathion.

(A) **Problems in the Grass Roots.** Area horticulturists agree turf diseases are the number one problem at this time. However, few agree on treatment. Research has been limited and tests inconclusive here. Although heavy rains have robbed most lawns of nitrogen, application of fertilizer often encourages disease. Avoid over-stimulation of turf at this time, and if you fertilize use not more than 1 pound actual nitrogen for a 1,000 square foot area. Iron sulphate can be used as a fertilizer supplement or for a complete treatment at the rate of 1/4 to 1 pound per 1,000 square feet. With the advent of hot, dry weather authorities predict lawn fungi will be readily apparent. If treatment with fungicide is preferred, use any good lawn fungicide as: Panogen, Captan, RZ Actidione plus 1 tablespoon of household detergent per gallon. Organic mercuric fungicide should not be used on Merion bluegrass. Spading fork tines are useful aids to open soil for good penetration of solutions. If fungicide is used apply once a week. Delay irrigation as long as possible after each application. Lawn disease bulletins are available at County Extension offices.

**Trade names mentioned are intended for information, and endorsement is not implied.*

ANNOUNCEMENTS

Whenever the bi-weekly tours to identify native wild flowers are cancelled because of bad weather, they will be conducted on the following Wednesday leaving at 8:30 a.m. from Botanic Gardens House. There is a special trip scheduled for Wednesday, June 28. The next regular trip is set for July 5.

Garden Tour — July 27, 2:00 to 8:00 p.m. In case of rain it will be held on the following day. Tickets, \$3.00, available at Botanic Gardens House: 297-2547, Gift Shop: 297-2348 and from any member of the **Denver Botanic Gardens Guild**. This is the annual project of the Guild conducted

for the benefit of Denver Botanic Gardens. There are eleven gardens of outstanding interest — all in the Country Club and Crestmoor area. The complete list with the addresses is given in the forthcoming issue of *The Green Thumb*. Buses will leave the conservatory, 1005 York Street, at 2:00, 3:00 and 4:00 p.m. Tickets are \$1.00 and reservations must be made. Call Mrs. Earle Honnen: 781-8601 by Wednesday, July 26, if you want bus transportation. An innovation this year will be a **Box Supper** at \$2.00 per person to be served at Botanic Gardens House from 5:30 to 7:00 p.m. Tickets must be purchased by Tuesday, July 26 for this supper.

CALENDAR OF EVENTS

JULY, 1967

Botany Classes for public school students are being conducted Monday through Friday until August 4 at 8:00 a.m. in the South Room of the Conservatory.

- | | |
|--|---|
| 3) 7:30 p.m. Open Space Council—Main Room | 1:00 p.m. Editorial Committee—Dining Room |
| 7:30 p.m. Swingle Tree Study Group—Dining Room | |
| 6) 10:00 a.m. Gift Shop Workshop—Main Room | 14) 7:30 p.m. Dahlia Society—Main Room |
| 7:30 p.m. Orchid Society—Main Room | 21) 7:30 p.m. Botany Club—Main Room |
| 10) 7:30 p.m. Colorado Mycological Society — Herbarium | 27) 5:00 p.m. Box Supper—Garden Tour |
| 11) 10:00 a.m. Herbarium Study Group — Herbarium | 28) 10:00 a.m. Ikebana International—Main Room |
| | 7:30 p.m. Men's Garden Club of Denver—Main Room |

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Green Thumb Newsletter

Volume 5 - Number 78

HELEN M. VINCENT, *Editor*

DENVER BOTANIC GARDENS, INC.

909 YORK

TELEPHONE 297-2547

AUGUST, 1967

GARDENING TIPS FOR AUGUST

Gardening can be fun, but ark-building seems so timely.

Future's Great in '68. For choice young plants next spring start seeds now of delphinium, dianthus, barbatus (sweetwilliam), hollyhock, Iceland poppy, lupine, primrose and pyrethrum (painted daisy). Plant seed $\frac{1}{8}$ " deep (except lupine — $\frac{1}{4}$ ") in well-drained, loamy soil preferably in a frame with sides extending 8" above the soil. Plant seeds in rows, customarily north to south. Keep seeds moist and cover frame with lattice. Thin seedlings when about $\frac{1}{2}$ " high.

Transplant and Divide primrose, bleeding heart, phlox subulata (creeping phlox), Oriental poppy, lycoris (hardy amaryllis) and iris.

Aphis Galore. Despite damp, cloudy weather juniper, spruce and pinyon pine are heavily infested with aphids. Nicotine sulphate (Black Leaf 40*) or malathion should be applied on a dry day with temperature between 65 and 80°. Do not use nicotine on tomato plants.

If the Sun Shines look out for red spider, especially on juniper and spruce. Control with kelthane, malathion or dusting sulphur. *Caution:* Caenart juniper is sensitive to malathion.

Beware of Thrip on privet and gladiolus. Spray with malathion to prevent serious infestation. Tattletale grey foliage is the symptom, but when visible treatment is too late.

Harden-Off Trees and Shrubs. If the rains subside(?) after mid-August is the time to reduce irrigation of woody plants and prepare them for dormancy. With the soil's unusually high moisture content withholding water at this time is especially important.

Mildew on roses, zinnias and fall asters can be controlled with dusting sulphur or karathane.

Fertilize lawn as needed in August or September with a well-balanced fertilizer supplemented with iron.

**Trade names mentioned are intended for information, and endorsement is not implied.*

ANNOUNCEMENTS

The Denver Dahlia Society will present a Dahlia Show on Sunday, August 27, in the South Room of the conservatory, 1005 York Street. Open to the public from 1:00 to 5:00 p.m. No charge.

The Wild Flower identification trips which have been conducted throughout the summer by Dr. Brunquist have been completed. There will be no more tours this season.

Mr. Bibee, Superintendent of the conservatory, has just returned from Florida with an exciting collection of new material for the tropical display. These plants are in the process of being located in the conservatory and should add new interest for our members. There will be more information about the new plants in the next issue of The Green Thumb magazine.

This is an invitation to our readers to be on the alert for any interesting specimen trees and shrubs which are unusual in the Denver area. Black and white glossy prints for use in The Green Thumb would be appreciated. Also, articles about such plants would be welcome, to be used at the discretion of the editorial committee.

14th Annual Colorado Gladiolus Show — Bear Valley Shopping Center, W. Hampden at Sheridan, Denver: The Sea of Memories — A Gladiolus Cruise of the Mediterranean. Saturday, August 12 — 2:00 to 6:00 p.m. Open to the public — no charge.

CALENDAR OF EVENTS

August, 1967

The Botany Classes for public school students will continue through August 4, Monday through Friday at 8:00 a.m. in the South Room of the Conservatory.

The Art Exhibit of the Denver Artists Guild will continue through August in the South Room of the Conservatory.

- | | |
|---|---|
| 3) 10:00 a.m. Gift Workshop — Main Room | 15) 10:00 a.m. Library Committee — Library |
| 7:30 p.m. Denver Orchid Society | 18) 7:30 p.m. Botany Club — Main Room |
| 8) 10:00 a.m. Herbarium Study Group —
Herbarium | 22) 7:30 p.m. Wheat Ridge Men's Garden Club
—Main Room |
| 1:00 p.m. Editorial Committee —
Dining Room | 25) 10:00 a.m. Ikebana International —
Main Room |
| 11) 7:30 p.m. Dahlia Society — Main Room | 7:30 p.m. Men's Garden Club of Denver —
Main Room |
| 14) 7:30 p.m. Colorado Mycological Society —
Main Room | 27) 1:00-5:00 p.m. Dahlia Show —
South Room Conservatory |

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Green Thumb Newsletter

Volume 5 - Number 9

HELEN M. VINCENT, *Editor*

DENVER BOTANIC GARDENS, INC.

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TELEPHONE 297-2547

SEPTEMBER, 1967

GARDENING TIPS FOR SEPTEMBER

✓ BY THE ROVING REPORTER

Wind, rain, hail and earthquakes! Any wonder aspens — and gardeners — have the shakes?

Protective Pruning. With our unusually wet summer, trees and shrubs have grown abnormally heavy foliage. To prevent damage by wind and possible early snowfall home gardeners should reduce some of this growth. Prune back and thin small trees judiciously. An experienced arborist should care for larger trees.

Perennial Progress. For a perky perennial border next season late September is an excellent time to redo or prepare new garden areas. Most borders with heavy clay soil suffer from compaction. Annuals have passed their prime and can be easily discarded. Although work on late-blooming fall asters and mums might need postponing overgrown clumps of most perennials can be lifted and divided. New varieties can be added now, or future plantings can be marked. Spade and recondition the soil by incorporating peat, sand and well-decayed, ground cow manure. Reset the plants, water and maintain.

NB Do Not Disturb peony or gas plants if healthy and appropriately located. Autumn is the best time for planting new peonies. Buy young 3-5 eye roots. Dig the hole 18" deep, add 4" of decayed manure in the bottom, fill with soil and tamp to settle. Plant so eyes are 2" below soil level but the root does not contact manure. Water.

In-Gathering. After the first heavy frost lift gladiolus, dahlia and tuberous begonia and put in

a cool place to cure. Winter storage will be considered in October. Wild flower seeds should be mature now. If you're penstemon-happy this is your year. Cone harvesting should also be rewarding.

Color It Autumn? Careful observers have found brilliant fall coloring occurs in dry years. In cold, wet seasons foliage has a tendency to change quickly, shrivel and fall. Let's observe.

Can Do. With shortened days and cool weather container-grown evergreens, trees and shrubs can be planted now and should become established before winter. Maintain by checking soil moisture throughout the coming months. Buy material from a reputable nurseryman or landscape contractor.

Lawns - Seed, Feed, Weed. New turf can be seeded or sodded. The last lawn feeding of the season should be completed before this month ends. If weather happens to be dry continue watering thoroughly and less frequently. Control weeds but ignore crabgrass until spring when pre-emergence treatment should be given.

Bulb Fever. Order tulips, hyacinths, daffodils and other spring-flowering bulbs now. Besides miniature tulip and daffodil try autumn-blooming crocus and the dainty bulbous iris, *Iris danfordia* (yellow) or *Iris reticulata* (purple).

The World Is Your Onion if this fall you plant such exotic alliums as: *Allium albopilosum*, white-lavender, 3-4" balls on 12" stems in May; *A. rosenbachianum*, June, 3-4" medium blue flower heads on 3' stems; *A. giganteum*, 8-10" purple umbels on 4' stems in June; *A. sphaerocephalum*, wine-red flowers 2" across on 2' stems in late July. These seed heads are decorative, too.

CALENDAR OF EVENTS

September, 1967

- | | |
|--|---|
| <p>4) House Closed — Labor Day</p> <p>7:30 p.m. Open Space Council—Main Rm.</p> <p>7:30 p.m. Swingle Study Grp.—Dining Rm.</p> <p>7) 10:00 a.m. Gift Shop Workshop—Main Rm.</p> <p>7:30 p.m. Orchid Society—Main Room</p> <p>8) 12:00 noon Crestmoor Park Garden Club Luncheon, Dr. Louis Martin, Speaker</p> <p>7:30 p.m. Dahlia Society—Main Room</p> <p>11) 7:30 p.m. Colorado Mycological Society — Herbarium</p> <p>12) 10:00 a.m. Herbarium Study Group — Herbarium</p> <p>1:00 p.m. Editorial Committee — Dining Rm.</p> <p>13) 1:00 p.m. African Violet Society — Main Rm.</p> | <p>14) 7:30 p.m. Denver Rose Society—Main Rm.</p> <p>15) 7:30 p.m. Botany Club — Main Rm.</p> <p>19) 12:30 p.m. African Violet Council — Main Rm.</p> <p>7:30 p.m. American Soc. of Landscape Architects — Dining Rm.</p> <p>22) 10:00 a.m. Ikebana International Membership Tea</p> <p>7:30 p.m. Men's Garden Club of Denver — Main Rm.</p> <p>24) 2:00 pm. Colorado Cactophiles—Main Rm.</p> <p>28) 1:00 p.m. Civic Garden Club — Past Presidents Tea—Main & Dining Rm.</p> <p>30) 10:00 a.m. Orchid Show Presented by Denver Orchid Society — Conservatory—Public is Invited.</p> <p>31) 5:00 p.m.</p> |
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ANNOUNCEMENTS

The Denver Orchid Society will present an Orchid Show in the South Room of the conservatory on September 30 and 31 from 10:00 a.m. to 5:00 p.m. The public is invited. There is no charge.

Denver Botanic Gardens Lecture Series — 1967-68
1967

- October 4 Dr. James R. Feucht, Extension Area Horticulturist, Colorado State University:
"The Foreigners in Our Home Landscapes."
- November 8 Dr. William M. Klein, Assistant Professor of Botany, Colorado State University:
"Natives of the Sub-alpine Zones."

1968

- February 22 Dr. Roger A. Anderson, Assistant Professor, Botany, University of Denver:
"Those Strange Plants Called Lichens."
- March 21 D. H. Mitchel, M.D., Honorary Curator of Mycology at Denver Museum of Natural History:
"Mushrooms and Toadstools, Nature's House Cleaners."
- April 25 Dr. Robert M. Kosanke, Geologist, U. S. Geological Survey:
"Fossil Plants — a Link With The Past."
- May 23 Jack Fason, Commercial and Scientific Photographer:
"The Creative Photographer."

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Green Thumb Newsletter

Volume 5 - Number 10

DENVER BOTANIC GARDENS, INC.

909 YORK ST.

TELEPHONE: 297-2547

OCTOBER, 1967

GARDENING TIPS FOR OCTOBER BY THE ROVING REPORTER

Snow-clad peaks glisten against a bright blue sky, lacy clouds glow in the evening sun, brisk and invigorating air, persistent blossoms in purples, golds, and reds — it's autumn! Yet winter seems a whisper away.

WINTER STORAGE: Gladiolus: After the corms are lifted, cut their tops and let dry. Then remove the old corm, treat with DDT powder or Captan* to control thrip. Store in mesh bags or ventilated trays in a dry place at 40-55°. Dahlia: Soon after a hard freeze cut the tops to 6" and lift root with a spading fork. Careful, don't break the root's neck. Wash root clean and turn upside down to eliminate moisture. Dahlias are easily divided. Use a sharp pruning shear to cut the root with a portion of the stalk for an eye. Dry to cure. Then apply a thin coating of paraffin. How? Fill a bucket more than half full of hot water, about 80°, add a pound of melted paraffin. Quickly dip the "tuber" into the water and coat with wax. Store in vented plastic bags. Or, pack roots in dry sand or sawdust. Store in a cool place. Tuberous Begonia: Lift immediately after frost, remove soil carefully. Cutting off the stems is safer than breaking them. Be sure to eliminate all of the stem to avoid rot. Store by completely surrounding the tuber in dry sand or peat. Peat is preferred. Temperature should be 40-50°. Check the tubers periodically for rot or shriveling.

BULBS IN DEPTH. Plant spring blooming bulbs as soon as possible in sandy loam spaded at least 12" deep. To avoid decay or disease, treat bulbs before planting with Arasan, Semesan or Spergon, and do not let the bulbs contact manure after planted. Commercial fertilizer can be incorporated to improve soil if necessary. Tests conducted at Denver Botanic Gardens for a 3-year period revealed that most tulips including Darwin, cottage, breeder and species planted 10" deep perform better the first season and in succeeding seasons than those planted at lesser or greater depths. (When compiled, results

of this study, made in cooperation with the Netherland Flower Bulb Institute, will be published in The Green Thumb magazine.) Of course, in heavy clay soil tulips should be planted about 8" deep. Hyacinth and daffodil are planted about 8"; squill and grape hyacinth, 4"; crocus and snowdrop, 3". Except for madonna lily, most bulbous lilies as regals, mid-century hybrids, and others can be planted now 6" deep from the base of the bulb in sandy loam. Lilies do not tolerate heavy clay soil. Encourage essential root growth in all these bulbs with ample water in the fall.

FORCING IS FUN. Five or six bulbs of early blooming varieties of tulip, hyacinth, daffodil can be planted in an 8" bulb pan in good potting soil. Water thoroughly, plunge and bury completely outdoors. Surround container with loose mulch for a quick lift from the frozen earth in January or February. At that time transfer pan to a cool, dark basement or garage. When growth appears bring into a well-lighted living area. Water as needed.

TRANSPLANTS. Evergreen and deciduous trees balled and burlapped can usually be safely transplanted after mid-October. However, foxtail pine, and the following junipers, canaert, scopulorum and tamarisk prefer spring moving.

HEED THE TREES. Check elms for scale and if necessary arrange for dormant spraying by a competent tree surgeon later in the year. Trees can still be trimmed for winter.

FALL CLEANING. Remove rough material and heavy accumulation of leaves from lawn areas, flower and shrubbery borders. No need to cut iris foliage. Remove dead perennial stalks, if any. Bird-watcher? Then leave seed stalks for feed.

*TRADE NAMES MENTIONED ARE INTENDED FOR INFORMATION AND ENDORSEMENT IS NOT IMPLIED.

ANNOUNCEMENTS

The Denver Orchid Society's annual show will be held in Boettcher Memorial Conservatory, 1005 York St., Saturday, Sept. 30 and Sunday, Oct. 1, 10 a.m. to 5 p.m. Flowering orchid plants and cut blooms, representing many different species, will be on display. The public is invited.

The first lecture in the 1967-68 series will be presented by Dr. James R. Feucht, in Boettcher Memorial Conservatory, 1005 York St., Oct. 4, 8 p.m. When he speaks of "The Foreigners in our Home Landscapes" we may be in for a great many

surprises. The plants we have considered "as American as apple pie" may have reached this country via long and devious routes from Asia. Tickets are \$1; season tickets for the six lectures are \$5, and they may be procured at Botanic Gardens House, 909 York St.

Presidents' Council of Denver will hold a Silver Tea in the South Room of Boettcher Memorial Conservatory, 1005 York St., Sunday, Oct. 8, 2 to 4 p.m. The public is invited. Proceeds will go to the benefit of Denver Botanic Gardens.

CALENDAR OF EVENTS

October, 1967

September 30 and October 1, 10 a.m. to 5 p.m. — Orchid Show by Denver Orchid Society, Conservatory. Public is invited.

- | | |
|--|---|
| 2) 7:30 p.m. Open Space Council — Main rm. | 10) 10:00 a.m. Herbarium Study Group — Herbarium |
| 7:30 p.m. Swingle Study Group—Dining rm. | 1:00 p.m. Editorial Committee—Dining rm. |
| 4) 8:00 p.m. Lecture: Dr. James R. Feucht, S. Room, Conservatory | 12) 8:00 p.m. Rose Society — Main rm. |
| 5) 10:00 a.m. - 3:00 p.m. Gift Shop Workshop—Main rm. | 13) 7:30 p.m. Dahlia Society—Main rm. |
| 7:30 p.m. Orchid Society — Main rm. | 18) 12:00 noon Civic Garden Club, Div. D — Dining rm. |
| 6) 11:30 a.m. Civic Garden Club — business meeting and luncheon — Main rm. and Dining rm. | 20) 7:30 p.m. Botany Club — Main rm. |
| 8) 2:00 p.m. - 5:00 p.m. Presidents' Council benefit tea, Boettcher Memorial Conservatory. | 22) 2:00 p.m. Colorado Cactophiles — Main rm. |
| 9) 7:30 p.m. Colorado Mycological Society — Main rm. | 26) 10:00 a.m. - 2:00 p.m. Around the Seasons Club — Main rm. |
| | 27) 10:00 a.m. Ikebana International — Main rm. |
| | 7:30 p.m. Men's Garden Club of Denver — Main floor |

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Green Thumb Newsletter

Volume 5 - Number 11

DENVER BOTANIC GARDENS, INC.

909 YORK ST.

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NOVEMBER, 1967

GARDENING TIPS FOR NOVEMBER

BY THE ROVING REPORTER

Now is the time to give thanks that this garden season is ending in typical autumn splendor; that young buds on leafless trees already forecast a future spring.

Needle-drop from evergreens occurs annually in varying degrees. Spruce and many long-needled pines, such as Austrian, Scotch and ponderosa, have pronounced shedding of older needles in autumn. This process occurs mainly in summer with such junipers as savin, pfitzer and canaert. Pinion sheds in late spring, so don't worry needlessly.

Leaf-raking. Remove leaves from lawn areas to improve appearance and avoid smothering the grass. Maple, ash, elm and hawthorn leaves provide good mulch in shrub borders where they hold moisture and prevent alternate freezing and thawing. Spaded under, after the ground opens in spring, they improve soil texture. Apply only after ground is frozen. Cottonwood and sycamore leaves are seldom beneficial; they tend to pack and decompose slowly.

Check the Scales. Cotonaster, ash and lilac were heavily infested with oyster-shell scale last season. If necessary treat plants with 10 per cent dormant oil spray. If elm scale is present begin to apply dormant spray when leaves have fallen.

Winterize Roses. After mid-November hill roses by mounding well-drained soil 8 to 10 inches high. Bring soil from other parts of the garden to form a cone-shaped mound or fill hardware cloth cylinders with a mixture of top soil and peat moss to give needed winter protection. Borrowing soil within the rose bed often exposes roots. Unusually tall canes should be pruned to 30 or 36 inches to lessen wind damage. Other growth should be saved to carry plants through our winter season. Most hardy climbing roses only need a 3- or 4-inch soil cover, and hardy shrub roses, none. See "Rose Culture in the Denver Area," a special issue of The Green Thumb magazine, September, 1965, for detailed instructions.

Wet Feet. In late November evergreens, trees, shrubs, spring-blooming bulbs, woody vines, roses and perennials should be soaked thoroughly so deepest roots enter the "deep freeze" wet. If little moisture falls, lawns need occasional irrigation to prevent browning and drying.

Reminders. Spring-blooming bulbs as well as trees, container-grown or balled-and-burlapped, can be planted as long as soil is workable.

NEWS ITEMS

HERB VINEGAR — Denver Botanic Gardens Guild again offers two fine flavors: herb vinegar and tarragon vinegar in \$1.00 pint bottles. Telephone orders to Mrs. Scott Ferguson, 798-3788, Monday, November 27th through Sunday, December 10th. Pick up in South Room, Conservatory, Dec. 14th, 8:00 a.m. to 5:00 p.m.

LECTURE — Second lecture in 1967-68 series will be presented by Dr. William M. Klein, Assistant Professor of Botany, Colorado State University, in Boettcher Memorial Conservatory, 1005 York St., November 8, 8:00 p.m. Dr. Klein is a native of Colorado and speaks with authority concerning "Native Plants for the Home Landscape." Tickets available at Botanic Gardens House, 909 York Street, \$1.00 each.

GIFT SALE — Associates will hold their annual Christmas sale Friday and Saturday, December 1st and 2nd, 10:00 a.m. — 4:30 p.m. in the South Room, Boettcher Memorial Conservatory.

Dr. L. B. Martin, Director of Denver Botanic Gardens, has been elected vice-president of the American Association of Botanical Gardens and Arboreta, and has been made a member of the Board of Directors of the American Horticultural Society. He is chairman of the Education Committee of each of the organizations. He says that the annual meeting of the American Association of Botanical Gardens and Arboreta will be held in Denver in early September, 1968.

THE BEAUTIFUL FLORAL ARRANGEMENTS that are being displayed in the foyer of Boettcher Memorial Conservatory are the work of Lee J. Ashley (President of the Colorado Gladiolus Society). We appreciate the time, effort, and talent he spends on this project.

"Holiday Showcase" Colorado Council of Nationally Accredited Amateur Flower Show Judges, Colorado Federation of Garden Clubs Headquarters, 1556 Emerson, November 9th, 12 noon to 8:00 p.m.; November 10th, 10:00 a.m. — 6:00 p.m. Admission \$1.00.

The African Violet Council will hold an African Violet Plant sale, November 21 from 10:00 a.m. to noon — Denver Botanic Gardens House. Open to the public.

CALENDAR OF EVENTS

November, 1967

- | | | |
|-----|---------------------------------------|--|
| 2) | 10:00 a.m. — 3:00 p.m.
7:30 p.m. | Gift Shop Workshop — Main Room
Orchid Society — Main Room |
| 6) | 7:30 p.m.
7:30 p.m. | Open Space Council — Main Room
Swingle Study Group — South Room, Conservatory |
| 8) | 8:00 p.m. | Dr. William M. Klein, Lecture — Conservatory |
| 9) | 12 noon — 8:00 p.m. | "Holiday Showcase" — Colorado Federation Garden Club Headquarters |
| 10) | 10:00 a.m. — 6:00 p.m.
7:30 p.m. | "Holiday Showcase" — Colorado Federation Garden Club Headquarters
Dahlia Society — Main Room |
| 13) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 14) | 9:00 a.m.
10:00 a.m.
1:00 p.m. | Herbarium Study Group — Herbarium Room
Gift Shop Personnel — Main Room
Editorial Committee — Dining Room |
| 15) | 7:30 p.m. — 9:30 p.m. | Plant Propagation Short Course — Conservatory Garage — Dr. Feucht |
| 16) | 10:00 a.m. — 2:00 p.m. | Around The Seasons — Main Room |
| 17) | 7:30 p.m. | Botany Club — Main Room |
| 21) | 10:00 a.m. — 12:00 noon
12:30 p.m. | Plant Sale — African Violet Council — Dining Room
African Violet Council — Main Room |
| 22) | 7:30 p.m. — 9:30 p.m. | Plant Propagation Short Course — Conservatory Garage — Dr. Feucht |
| 24) | 10:00 a.m. — 12 noon
7:30 p.m. | Ikebanna — Main Room
Men's Garden Club of Denver — All main floor |
| 26) | 2:00 p.m. | Colorado Cactophiles |
| 29) | 7:30 p.m. — 9:30 p.m. | Plant Propagation Short Course — Conservatory Garage — Dr. Feucht |

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MERRY CHRISTMAS

DECEMBER, 1967

GARDENING TIPS FOR DECEMBER

BY THE ROVING REPORTER

December is for Evergreens, they dominate the landscape at home and in the mountains. They are the symbol of Christmas.

EVERGREEN BOUGHS to the gardener mean light shade and good air circulation when placed over beds of dormant perennials, especially primrose, creeping phlox and other tender plants. Kinnikinnick likes this cover, too.

WINTER WRAPS. Trunks of young smooth-barked trees, linden, mountain ash, redbud, cherry, Norway and Schwedler maples, and others should be wrapped with a special paper or cloth. This shading prevents sun-scald and drying of the bark.

GIFT PLANTS: Poinsettia likes some sun, no drafts, soil moist (neither soggy nor dry), 70° days and 65° nights. Azalea requires cool location, good light, moist soil and humidity (to prevent bud blast). Spray leaves frequently with water to discourage red spider and increase humidity. A gravel-filled pan with water below base of pot also improves humidity. Christmas pepper and Jerusalem cherry need lots of light, cool temperature, no drafts, moist soil conditions.

TIDY EVERGREENS. To protect multiple-stemmed upright evergreens from possible heavy snow damage tie branches with twine or twist-ems.

CLEAN AND STORE. Clean and oil tools before storing for the season. Store hoses, but leave some unattached hose available for watering evergreens, birches, newly established trees and shrubs if dry weather prevails.

HOLIDAY EXCURSIONS rate high with families seeking decorative cones. Try cutting a Christmas tree at a designated forest area.

PLANT FOR GIVING. A holiday plant that "grows on you" is giant amaryllis with spectacular blossoms in white, pink, orange or red. Buy pre-started or plant-your-own bulbs. Plant in a pot 2 or 3 inches larger than the bulb's diameter, use good garden loam and leave two-thirds of the bulb exposed. Keep at temperature between 60° and 70°, water sparingly until the bud's in sight. When leaves begin to develop water freely, place plant in a cool, light room, avoid direct sun. Bud to blossom takes about 6 weeks.

NEWS ITEMS

GIFT SALE — Associates will hold their annual Christmas sale Friday and Saturday, December 1st and 2nd, 10:00 a.m.-4:30 p.m., South Room, Boettcher Memorial Conservatory. You may select from a wide variety of attractive, high quality and reasonably priced items such as hand-made wreaths, tree ornaments, papier mache fruit and vegetables, books, jewelry, wood-carved nativity groups, Glow Candles, floral calendars, ceramic containers for floral arrangements, cement castings of animal subjects for inside or outside garden use, note paper, greeting cards, and dozens of kinds of stocking stuffers. **BUY A GIFT AND HELP US GROW!**

NEW OFFICERS of ASSOCIATES: Mrs. Hayes W. Neil, president; Mrs. Charles V. Petersen, vice-president; Mrs. Lucian E. Pope, secretary; Charles M. Wilkins, treasurer. Mrs. Carl W. Tempel is historian and Mrs. Graham B. Morrison, membership chairman.

HERB VINEGAR — Call your order in to Mrs. Scott Ferguson, 798-3788, Monday, Nov. 27th through Sunday, Dec. 10th; pick up in South Room, Conservatory, Thursday, Dec. 14th, 8 a.m. to 5 p.m. Enjoy the Denver Botanic Gardens Guild herb garden flavors throughout the year in two varieties: mixed herbs and tarragon.

WHAT TREE IS THIS? Written and illustrated with simple line drawings, this booklet includes identification keys to most of the shade trees and evergreens growing in this area. Horticulturists, home owners, and teachers will find it useful, but it is simple enough for children to understand and use. It is scientifically correct. Available at the Gift Shop. Put a copy in someone's Christmas stocking.

MEET THE NATIVES — Published in 1942 by the late M. Walter Pesman, and now in its 7th edition, this book is a valuable aid for the amateur who wishes to identify common native plants within altitudinal zones. Within the zones the plants are grouped by color. Size, binding, and cover make it convenient to carry in the field.

DECORATIONS FOR THE HOLIDAY SEASON at Botanic Gardens House this year will be put in place again by members of the Guild, on the outside, and by a committee of Associates under the direction of Avalonne Kosanke, on the inside. Blue and gold Christmas decor, coordinating with the fine interior decoration, will be used inside. Unusual and exquisite dried plant ornaments will be utilized along with traditional evergreens.

BOETTCHER MEMORIAL CONSERVATORY

will receive its decorations from an Associates family decorating party where poinsettia ornaments will be hand-crafted by a new and unusual process. Garlands and ever-green boughs will be incorporated in the effect. Dusty Smith is in charge of party details.

Boettcher Memorial Conservatory received a shipment of tropical and sub-tropical plants during the past summer and, along with its original plantings, has achieved a remarkable effect. Take advantage of holidays and bring the family to enjoy a visit to the tropics. Open week days 9-5; Friday evening 7-9; Saturdays and Sundays 10-5. Gift Shop open 10-4 daily, except Sunday 12 noon-4 p.m.

CALENDAR OF EVENTS

December, 1967

- | | | |
|-----|----------------------|---|
| 1) | 10:00 a.m.—4:30 p.m. | Gift Shop Sale — South Room, Conservatory |
| 2) | 10:00 a.m.—4:30 p.m. | Gift Shop Sale — South Room, Conservatory |
| 4) | 4:00 p.m. | Annual meeting, Plains Conservation Center Board, Main room |
| | 7:30 p.m. | Open Space Council — Main Room |
| | 7:30 p.m. | Swingle Study Group — South Room, Conservatory |
| 6) | 7:30 p.m.—9:30 p.m. | Plant Propagation Short Course — Conservatory Garage and Greenhouse,
Dr. James R. Feucht |
| 7) | 10:00 a.m.—3:00 p.m. | Gift Shop Workshop — Main Room |
| | 7:30 p.m. | Orchid Society — Main Room |
| 8) | 7:30 p.m. | Dahlia Society — Main Room |
| 11) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 12) | 9:00 a.m. | Herbarium Study Group — Herbarium |
| | 1:00 p.m. | Editorial Committee Meeting — Dining Room |
| 13) | 11:00 a.m.—3:00 p.m. | Civic Garden Club, Main Room and Dining Room |
| | 7:30 p.m.—9:30 p.m. | Plant Propagation Short Course — Conservatory Garage and Greenhouse,
Dr. James R. Feucht |
| 14) | 8:00 a.m.—5:00 p.m. | Herb Vinegar Pick-up — South Room, Conservatory |
| | 10:00 a.m.—2:00 p.m. | Around the Seasons — Main Room |
| 15) | 7:30 p.m. | Botany Club — Main Room |
| 17) | 2:00 p.m. | Colorado Cactophiles |
| 18) | 9:30 a.m.—1:00 p.m. | Garden Club of Denver (trim trees) |
| 22) | No meeting | Ikebana |
| | Meeting transferred | Men's Garden Club |

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GARDENING TIPS FOR JANUARY

BY THE ROVING REPORTER

Weather observers report 1967 in Colorado was one of the wettest years on record and forecast below-normal temperatures in the days ahead. Let's wring out the Old and br-r-ring in the New.

South African Amaryllis, recommended in the December Newsletter, can be carried over another season. Continue to water the plant and feed it once a month to encourage growth of large, healthy leaves which strengthen the bulb. In late spring sink the pot in the garden in a semi-shaded spot. Keep moist. Before danger of frost in September return the amaryllis to the house, store it perfectly dry in a cool part of the basement. Let the bulb rest for three months, then begin the cycle anew.

Colorful Catalogs tempt gardeners with late introductions and old favorites. Whether free or purchased at modest cost they are the gardener's dream-makers and are worthwhile supplements to garden encyclopedias. Since many plants pictured often lack hardiness in this area check with your local nurseryman or refer to George Kelly's Rocky Mountain Horticulture before placing your order. Books on any phase of horticulture can be borrowed by members of Denver Botanic Gardens from the Helen Fowler Library at Botanic Gardens House.

Ground Cover Plants for Colorado Landscapes, Pamphlet 104, published by the Cooperative Extension Service, Colorado State University, is available without charge at Botanic Gardens House or at your County Extension Office. Beginners with problem slopes or other garden areas difficult to maintain will find this bulletin helpful.

Instant Shade. Large trees can be safely moved with a frozen ball of earth at this time of year. Contact your favorite nurseryman.

January Thaws often result in drought to evergreens, plants in planter boxes, shrubs growing on the south side of a building. Newly planted or sodded lawns can also suffer from needed moisture. If the weather is dry, the ground is not frozen, and temperatures are above freezing, water thoroughly.

Forced Bulbs can be brought into a cool basement in late January. When growth tips show bring pots into a lighter and warmer area. Water as needed.

January, 1968

"Ahead lies the bright unknown. The sun passed its lowest orbit point nearly ten days ago. The coldest spell lies ahead but let us rejoice because it will not be long before the buds will swell and mother nature's big and little plants will blossom forth bearing new leaves and undreamed-of flowers, bringing new smiles and hopes. Happy New Year!"

Thus wrote S. R. DeBoer in his delightful book Around the Seasons in Denver Parks and Gardens.

NEWS ITEMS

HOURS AT DENVER BOTANIC GARDENS

Botanic Gardens House, 909 York St., open to public 8 a.m.-5 p.m. Monday through Friday; Helen Fowler botanical and horticultural library open Monday through Saturday, 10 a.m.-3 p.m.

Edna C. and Claude K. Boettcher Memorial Conservatory of tropical and subtropical plants, 1005 York St., open weekdays 9 a.m.-5 p.m.; Friday evening 7-9; Saturday and Sunday 10 a.m.-5 p.m.

Gift Shop in Conservatory open 10 a.m.-4 p.m. daily, except Sunday: 12 noon-4 p.m.

City Park and York Street gardens open daylight hours. Admission free. Information: 297-2547.

COLORADO GARDEN AND HOME SHOW, Feb. 2-11 at the Denver Coliseum Complex, will feature Colorado Gardens Around the Seasons and exhibit 20 rooms and vignettes designed by members of the Colorado District Chapter of the American Institute of Designers (AID).

George Kelly will coordinate the gardens, created by leading nurseries and landscape architects, which will carry out effective themes for Early Spring, Late Spring, June, August, Fall and Winter.

"Leisure Living in Colorado" will be presented by the area's prominent interior designers.

Dick Haughton, general manager of the Colorado Garden and Home Show, sponsored by Denver Botanic Gardens, announces inclusion of Antique Showcase and Stereo Stadium, two new display themes this year.

CALENDAR OF EVENTS

January, 1968

- 1) NEW YEAR'S DAY Botanic Gardens House closed.
- 4) Associates' Arts and Crafts — no meeting.
12:00-1:30 p.m. Colorado Garden Show annual meeting — Main Room
7:45 p.m. Orchid Society — Main Room
- 5) Civic Garden Club — no meeting
12:30 p.m. African Violet High Hope Study Club — Main Room
- 8) 7:30 p.m. Swingle Study Group — Dining Room
7:30 p.m. Colorado Mycological Society — Main Room
- 9) 9:00 a.m. Herbarium Study Group — Herbarium
1:00 p.m. Editorial Committee — Dining Room
- 10) 10:00 a.m.-12 noon Library Committee — Library
- 12) Denver Dahlia Society — no meeting; See January 28
- 16) 12:30 p.m. African Violet Council — Main Room
- 19) 7:30 p.m. Botany Club — Main Room
- 23) 7:30 p.m. Colorado Gladiolus Society & Denver Dahlia Society tour, Coors Brewery, Golden.
- 25) 10:00 a.m.-2:00 p.m. Around the Seasons Club — Main Room
- 26) 10:00 a.m. Ikebana — Main Room
7:30 p.m. Men's Garden Club of Denver — Main Room
- 28) 2:00 p.m. Colorado Cactophiles — Main Room



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GARDENING TIPS FOR FEBRUARY

BY THE ROVING REPORTER

Buds swell, some glisten; twigs and branches glow in striking hues; trees and shrubs silhouette against a sapphire sky; sunrises are vivid, sunsets, flamboyant. This is nature's prelude to spring.

SEEDS OF WISDOM. A wise selection of flower and vegetable seed can be made now while stocks are complete. Seeds (pre-frozen) of delphinium, columbine, balloon flower should be started this month. Most indoor seed-planting should be postponed until late March or April to ensure sturdy, compact plants. Purchase begonia tubers now for later planting.

CUTTING REMARKS: House Plants, such as peperomia, ivy, philodendron, that show active growth (new leaves) root easily now. Cuttings should be inserted in moist sand or perlite. Cover with clear plastic for about a week to reduce evaporation.

Bedding Plants as geranium, fibrous-rooted begonia and fuchsia should be started from cuttings for setting into the garden in late spring. Coleus cuttings can be made much later.

Trees and Shrubs can be propagated from hardwood cuttings made at this time. The wood should be clean and healthy. Cut just below a node (bud) with at least two nodes above. Make a straight cut with sharp pruners, trim the twig or branch to 6 or 8 inches in length. Take 10 to 15 cuttings (all will not "strike"), tie into bundles and label. Bury them upside down in moist sand and below the frost line (in an earth basement, root cellar or south of a building where frost-free, cool and moist). Water well and fill the hole with earth and a layer of leaf mulch. This procedure keeps buds from developing before a callus forms on the bottom end. In March check for moisture, if soil seems dry, soak again and leave until late April. Coralberry, ninebark, Froebel's spirea, aspen, willow are easy to propagate and require one-year-old wood. Forsythia, honeysuckle, dogwood, mockorange, spirea require two-year-old wood.

SPRING PREVIEW. Early-flowering shrubs and trees such as Nanking cherry, double-flowering plum, forsythia, quince, alder and pussy willow can be forced now. Simply immerse stems in water in a light room or let stand in a cool, light basement for a week before bringing into the living area.

PRUNE GRAPES by removing all but the new fruiting canes — pencil-sized wood with dormant buds 3 to 6 inches apart.

CHECK STORED "Bulbs" for moisture, dryness, insects or disease. If too moist, dry and repack. If too dry, slightly moisten the storage medium. Dust them with DDT if insects are suspected. Destroy diseased "bulbs".

SUNSCALD in this region occurs mainly in the next two months. Tender-barked trees, if not already protected, will benefit if wrapped with commercial tree wrap or shaded with a board placed to deflect afternoon sun. Tender evergreens can be protected with snow fence or evergreen boughs.

NEWS ITEMS

THE GIFT SHOP will occupy Space No. 63 at the Colorado Garden and Home Show, Denver Coliseum, February 2-11. The booth will be stocked with quality merchandise at reasonable prices. Mrs. C. V. Petersen, chairman of the Gift Shop Committee, and her staff will be on hand to answer questions about Denver Botanic Gardens and distribute informational literature concerning purposes and activities.

LECTURE — Dr. Roger A. Anderson, University of Denver Department of Biological Sciences, will give an illustrated talk on lichens Feb. 22, 1968, in Boettcher Memorial Conservatory, 1005 York St., 8 p.m. Come and learn how they reproduce, where to find them, and to what uses they are put. Using slides, Dr. Anderson will teach you how to recognize a few common genera. Tickets available at Botanic Gardens House, 909 York St., \$1.00 each.

ROCKY MOUNTAIN NATIONAL PARK Summer Seminars — The Institute of Arctic and Alpine Research, University of Colorado, Boulder, will give six six-day seminars on ecology, geology, and related fields beginning June 17 and ending July 20. For information concerning topics, place, accommodations and fees telephone Institute of Arctic and Alpine Research, 443-4480.

MIDWESTERN CHAPTER OF INTERNATIONAL SHADE TREE CONFERENCE will be held February 7, 8, 9, 1968, Chase-Park Plaza Hotel, St. Louis. Topics: Shade Tree Business, Systemics in Insect Control, Tree Planting in St. Louis, Soil and Root Growth of Trees, the Role of Trees in Landscape Design, Beauty, Some Ecological Bases for Selection of Trees for Suburban Planting.

1968 ANNUAL PLANT SALE — May 10 and 11, Friday and Saturday, 9:30 a.m.-5:30 p.m. General Chairman: Mrs. Graham B. Morrison. Watch March and April Newsletters for more information.

NEW BOOKS IN GIFT SHOP: Pictorial Checklist of Colorado Birds, by Alfred M. Bailey and Robert J. Niedrach; \$10.00. This is a condensation from Birds of Colorado, the two-volume edition, which is also carried in the Gift Shop; \$35.00.

The Encyclopedia of Judging and Exhibiting by Esther Hamel; a textbook and ready reference for every Garden Club, judge, and arranger. Esther Hamel is very well known as an artist and flower show judge; \$7.95.

CALENDAR OF EVENTS

February, 1968

- 1) 10:00 a.m.-3:00 p.m. Gift Shop Workshop — Main Room
7:00-10:00 p.m. Denver Orchid Society — Main Room
- 2) 11:00 a.m.-3:00 p.m. Civic Garden Club — Main Room
2-11) Colorado Garden and Home Show — Coliseum
- 5) 7:30 p.m. Swingle Study Group — Dining Room
- 8) 8:00-10:00 p.m. Denver Rose Society — Main Room
- 9) 9:00 a.m.-3:30 p.m. CSU Extension Parks and Recreation Workshop, Conservatory
Garage
7:30 p.m. Denver Dahlia Society — Main Room
- 12) 7:30 p.m. Colorado Mycological Society — Main Room
- 13) 9:00 a.m. Herbarium Study Group — Herbarium
1:00 p.m. Editorial Committee — Dining Room
- 16) 7:30 p.m. Botany Club — Main Room
- 22) 9:30 a.m.-2:30 p.m. Around the Seasons Club — Main Room
8:00 p.m. Dr. Roger A. Anderson lecture on Lichens — Conservatory Garage
- 23) 10:00 a.m. Ikebana International — Main Room
7:30-10:00 p.m. Men's Garden Club of Denver — Main Room
- 25) 2:00 p.m. Colorado Cactophiles — Main Room



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GARDENING TIPS FOR MARCH

BY THE ROVING REPORTER

Springtime is near. Winter, kindly step to the rear and let the seasons march along.

Plan and Plant. Blustery days invite planning with your favorite nurseryman or landscape designer. He can suggest the right plant for a difficult situation and distinctive plants for favorable conditions in our high-plains gardens. Depending on the weather plant bare-root trees, shrubs and roses in late March and April. Large deciduous trees and evergreens can be root-balled and moved now while still dormant. Container-grown plants can be planted as soon as the ground is ready.

Begin with the Soil. Kinds of soil in Colorado are many: yellow clay, black gumbo, gravelly, sandy or loamy. Most of these need conditioning. Clay and gumbo are called tight soils — sticky when wet, hard if dry, and difficult for healthy plant growth. As soon as ground is thawed and partially dry (do NOT work when soil is wet) add sand to loosen and provide drainage; incorporate humus — leafmold, peat, compost or manure. Manure, a good source of fertilizer and humus, should be ground and dry (some straw is beneficial). Spread 2 or 3 inches of sand and humus over the area's surface, then spade under 6 to 8 inches. Gravelly or sandy soils will need the addition of humus to hold moisture and for nutrients. If the soil is loamy give thanks and, perhaps, some fertilizer. During summer, when plants are established, work in a mulch of compost, peat or leafmold to prevent formation of hard crust.

Getting Ahead of insects. Arrange now for dormant spraying of evergreens. American elm, green ash, lilac, cotoneaster and other plants susceptible to scale insects should be treated now. Look for a home-gardener's complete spray schedule for trees and shrubs in the next issue of THE GREEN THUMB magazine.

Tuberous Begonias can be started late this month. Plant, concave side up, in shallow trays of ½ peat and ½ sand, covering tuber about 1 inch. Water to keep moist. Sprout in basement or light room 60 to 65° temperature. When sprouts are 1 to 2 inches high transfer plants to 4-inch pots of equal parts peat, sand and well-decayed cow manure. Water. Keep moist but not soggy.

NEWS ITEMS

LECTURE — "Mushrooms and Toadstools, Nature's House Cleaners" will be presented by D. H. Mitchel, M.D., Curator of Mycology at Denver Botanic Gardens, Thursday, March 21, 8 p.m., Boettcher Memorial Conservatory. He will explain the role of fungi in the economy of nature, illustrating different types with colored slides, and describe certain edible and poisonous species commonly found in this area.

ROCKY MOUNTAIN AFRICAN VIOLET COUNCIL presents its Seventh Annual African Violet Show, Saturday, April 6, 2-8 p.m.; Sunday, April 7, 1-6 p.m., Community Room, Englewood City Hall, 3400 S. Elati St., Englewood. Telephone Mrs. Paul W. Kiesling, 377-9475 for information.

DENVER CHAPTER OF IKEBANA INTERNATIONAL will present a Japanese Flower Show in the South Room, Boettcher Memorial Conservatory, 1005 York Street, April 27 and 28, 10 a.m. to 5 p.m. One dollar donation; proceeds to go for improvement in Botanic Gardens House.

A SERIES OF BOTANY FIELD TRIPS, open to those who wish to add to their knowledge of the wild flowers, herbs, shrubs, and trees of Denver Mountain Parks, is being co-sponsored by Denver Museum of Natural History and Denver Botanic Gardens. The first trip is scheduled for April 17th to see "What Spring has been up to in the Foothills." Beginning May 8th, trips will be held on alternate Wednesdays at least through June, weather permitting. Registration is requested, but not required. Trip groups will leave Botanic Gardens House promptly at 8:30 a.m., returning early in the afternoon. Bring a lunch if you wish. Leaders include Dr. E. H. Brunquist and Dr. Helen M. Zeiner. Pooling transportation is necessary. Please let us know a day or two in advance if you can provide transportation or need it. Telephone 297-2547.

HOME LANDSCAPE GARDENING lecture series, presented by Cooperative Extension Service, Colorado State University, will be held in Boettcher Memorial Conservatory garage, 1-2:30 p.m., March 6, 13, 20, 27. Phone Dr. James R. Feucht, Area Horticulturist, for information and registration forms: 355-8306.

1968 ANNUAL PLANT SALE — May 10 and 11, Friday and Saturday, 9:30 a.m. to 5:30 p.m.

NEWS ITEMS

McCALL'S GARDEN BOOK, by Gretchen Harshbarger, at \$6.95, is available at the Gift Shop in Boettcher Memorial Conservatory. The author consulted regional experts in making recommendations and giving information concerning eleven plant zones. Dr. A. C. Hildreth, Director Emeritus of Denver Botanic Gardens, assisted in connection with the Plains and Intermountain Areas. The book contains a wealth of gardening information including regional gardening requirements, soil types, planning for succession of blooms, shady or sunny spots, selection and planting of trees and shrubs, and practically anything connected with a green-thumber's hobby.

WE CONGRATULATE THE DENVER BOTANIC GARDENS ASSOCIATES, who staffed the booth at the Garden and Home Show on a job well done. Co-chairmen Fran Morrison, Gwen Pope and Betty Welty deserve credit for coordinating the project.

EXHIBITION OF OIL and WATERCOLOR PAINTINGS by members of the Denver Artists Guild, South Room of Boettcher Memorial Conservatory, February through April. Open to the public at no charge.

CALENDAR OF EVENTS

March, 1968

- | | | | |
|-------------------------|--|--------------------------|--|
| 1) 11:00 a.m.-3:30 p.m. | Civic Garden Club—Main Rm. | 19) 12:00 noon-4:00 p.m. | African Violet Council — Main Rm. |
| 4) 7:30 p.m. | Swingle Study Group — Dining Rm. | 20) 1:00-2:30 p.m. | Home Landscape Gardening Lecture — Conservatory Garage |
| 5) 10:00 a.m. | Children's Garden Planning Committee — Dining Rm. | 1:00-3:00 p.m. | Tour Guide Instruction Class — South Rm. |
| 6) 1:00-2:30 p.m. | Home Landscape Gardening Lecture — Conservatory Garage | 21) 8:00 p.m. | Dr. D. H. Mitchel lecture on Mushrooms — Cons. Garage |
| 1:00-3:00 p.m. | Tour Guide Instruction Class — South Rm. | 22) 10:00 a.m. | Ikebana International, Denver Chapter — Main Rm. |
| 7) 10:00 a.m.-3:00 p.m. | Associates' Gift Shop Work Shop — Main Rm. | 7:30-10:00 p.m. | Men's Garden Club of Denver—Main Rm. |
| 7:00-10:00 p.m. | Denver Orchid Society — Main Rm. | 24) 1:00-5:00 p.m. | Annual Gladiolus Auction — Conservatory Garage |
| 8) 7:30 p.m. | Denver Dahlia Society — Main Rm. | 2:00 p.m. | Colorado Cactophiles — Main Rm. |
| 11) 7:30 p.m. | Colorado Mycological Society — Main Room | 27) 1:00-2:30 p.m. | Home Landscape Gardening Lecture — Conservatory Garage |
| 13) 1:00-2:30 p.m. | Home Landscape Gardening Lecture — Conservatory Garage | 1:00-3:00 p.m. | Tour Guide Instruction — South Rm. |
| 1:00-3:00 p.m. | Tour Guide Instruction Class — South Room | 28) 9:30 a.m.-2:30 p.m. | Around the Seasons Club—Main Rm. |
| 14) 8:00 p.m. | Denver Rose Society—Main Rm. | | |
| 15) 7:00 p.m. | Botany Club—Main Rm. | | |



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GARDENING TIPS FOR APRIL

This month's gardening can be jolly or sheer folly—for quicker than the splash of a raindrop, winter may trick spring into another game of hide-and-seek.

Perennials. Chrysanthemum, shasta daisy, phlox and fall aster appreciate division every two or three years. Lift old plants carefully, discard the center, plant the new plants that have developed on the outside in loamy soil 1½ to 2 feet apart. Daylily, painted daisy, meadowrue, yarrow are simply divided in halves, thirds or fourths. To keep Aster frikartii vigorous lift and reset each year (it needs good drainage). Lift and divide red hot poker every other year. Anchusa, gas plant, lupine, peony and lythrum should not be disturbed. Do not divide delphinium and, if it must be moved, replant very early with a ball of earth.

Aerate Lawns. Aeration will improve sub-standard lawns whether suffering from hard usage or compaction. Use a power aerator available at rental agencies. If the ground is not dry the machine will cut out plugs to admit air and moisture. Rake off the plugs, and, most important, top-dress with equal parts sand, peat and manure. (Some fertilizer plants offer such mixtures.) Rake lightly and water well.

Crabgrass and certain other lawn weeds can be controlled with a pre-emergence treatment applied now.

Dwarf Fruit Trees, also semi-dwarf, delight fresh-fruit fanciers whose garden space is limited. Golden Delicious, Red Delicious and Delcon are among the dwarf apples that have done well here. Avoid Yellow Transparent, Lodi and varieties of Jonathan, all susceptible to fire blight.

Dahlias. The tip of paraffin-coated root ends should be cut off to let in moisture for growth development. For early blooming dahlias try sprouting the roots on the south side of a building. Plant about 2 inches deep in a mixture of peat and sand and keep moist. If cold weather develops cover the area with burlap for quick protection. The plants should be transferred to their permanent location late in May. See May Newsletter for normal dahlia culture.

Tidy the Garden. Remove dead tops from perennials. Iris leaves should be cleaned off soon and soil cultivated around the rhizomes. Plant bare root roses, shrubs and trees early. Evergreens can be planted. Buy from local garden shops and nurseries where they understand our erratic weather and can advise accordingly. Spade ground cow manure into flower and shrub borders.

First Annual Rose Clinic. Sponsored by the Denver Rose Society, a rose clinic will be held Saturday, April 13 in the Rose Garden, on York Street, weather permitting. Lectures and demonstrations on rose pruning and care will be given at 10 a.m. and 2 p.m. by Mary Armstrong, Corona Clipper Co. Denver rosarians will staff a Rose Information Booth and demonstrate correct methods for planting bare-root roses. The public is welcome; no charge.

NEWS ITEMS

LECTURE — "Fossil Plants — A Link with the Past," will be presented by Dr. R. M. Kosanke, Geologist, U. S. Geological Survey, Thursday, April 25, 8 p.m., Boettcher Memorial Conservatory, 1005 York Street. He will discuss the fossil evidence of changes in plant life during the geologic history of the earth. The economic application of paleobotany and methods employed in studying the various kinds of fossils will be explained.

IKEBANA JAPANESE FLOWER SHOW, Boettcher Memorial Conservatory, April 27-28, 10 a.m. to 5 p.m.; one dollar donations to benefit Botanic Gardens House.

AFRICAN VIOLET SHOW, April 6, 2-8 p.m.; April 7, 1-6 p.m., Community Room, Englewood City Hall. Call 377-9475 for information.

BOTANY FIELD TRIPS, co-sponsored by Denver Museum of Natural History and Denver Botanic Gardens, beginning May 8th and continuing at least through June on alternate Wednesdays. Leaders include Dr. Helen M. Zeiner and Dr. E. H. Brunquist. For information, call 297-2547.

CHILDREN'S GARDEN—Registration for beginners must be completed by April 12th.

1968 ANNUAL PLANT SALE — May 10 and 11, Friday and Saturday, 9:30 a.m. to 5:30 p.m. Many of the same green-thumbed volunteers who worked in past plant sales are heading up the committees, selecting the "tried-and-true" plants, and otherwise lending their talents to making this another successful event.

This year, booths and other sales sections will extend from Botanic Gardens House across the York Street unit to Boettcher Memorial Conservatory, allowing for greater freedom of movement and convenience. Plants will include choice trees and shrubs, favorite perennials, herbs, and newly developed annuals. Gladiolus corms, dahlia tubers, rock garden plants, ground covers and hardy cacti will be available. All of the material has been selected for its suitability to Rocky Mountain Region soil and weather conditions. The committees maintain they will have a plant for every purpose; many that require little care.

House plants will be located in the South Room of the Conservatory and will include easy-care and also more exotic varieties. A complimentary, easy-to-root slip from a trailing house plant will accompany house plant purchases.

The Gift Shop is stocking books, containers suitable for formal and informal floral arrangements, candle holders and snuffers, Wilkinson high quality tools, watering cans, large containers for patio use which can hold potted plants, small shrubs and trees, strawberry jars, aprons, gloves, hats, hummingbird feeder kits, sun dials, plant seeds and a large assortment of unusual and attractive gift items.

NEWS ITEMS

Illustrated talks will be presented at 2 p.m. in the conservatory garage by representatives of Colorado State University Extension Service:

Herbert C. Gundell, Extension Agent in charge, Denver

County: "Planning and Planting your Flower Garden," Friday, May 10.

Dr. James R. Feucht, Area Horticulturist: "Pest Control in the Home Garden," Saturday, May 11.

CALENDAR OF EVENTS

April 1968

- | | | |
|-----|----------------------|---|
| 3) | 1:00 p.m.—3:00 p.m. | Tour Guide Instruction Class — Conservatory |
| 4) | 10:00 a.m.—3:00 p.m. | Gift Shop Work Shop — Main Room |
| | 7:00 p.m.—10:00 p.m. | Denver Orchid Society — Main Room |
| 5) | 11:00 a.m.—3:30 p.m. | Civic Garden Club — Main Room |
| 6) | 2:00 p.m.—8:00 p.m. | African Violet 7th Annual Show, Englewood City Hall |
| 7) | 1:00 p.m.—6:00 p.m. | African Violet 7th Annual Show, Englewood City Hall |
| 8) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 11) | 8:00 p.m. | Rose Society — Main Room |
| 19) | 7:30 p.m. | Botany Club — Main Room
ARBOR DAY — Plant a Tree! |
| 20) | 1:00 p.m.—5:00 p.m. | Dahlia Auction — Conservatory Garage |
| 22) | 9:30 a.m. | Gift Shop Personnel Meeting — South Room Conservatory |
| 24) | 12:30 p.m. | Cheesman Park Garden Club — Main Room |
| 25) | 9:30 a.m.—2:30 p.m. | Around the Seasons — Main Room |
| | 8:00 p.m. | Lecture: Dr. Kosanke and Group — Conservatory Garage |
| 26) | 10:00 a.m. | Ikebana Workshop — South Room of Conservatory |
| | 7:30 p.m.—10:00 p.m. | Men's Garden Club — Main Room |
| 27) | 10:00 a.m.—5:00 p.m. | Ikebana Show — South Room of Conservatory |
| 28) | 10:00 a.m.—5:00 p.m. | Ikebana Show — South Room of Conservatory |
| | 2:00 p.m. | Colorado Cactophiles — Main Room |



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GARDENING TIPS FOR MAY

"May" on our calendar means tulips, flowering shrubs and trees MAY bloom. If they do, visit the crabapple and lilac collections in the City Park unit of Denver Botanic Gardens.

SEED, FEED, WEED. New lawns can be started from seed or sod in May and June. If your lawn was not fed late last fall fertilize about May 15 with a balanced commercial fertilizer with iron-containing compound. Weed control is the most effective when plants are young and vigorous, temperatures are above 70 and winds are calm. Water area thoroughly one or two days before herbicides are applied. Withhold water for three or four days following application. Use concentration recommended by manufacturer and follow precautions carefully.

CHRYSANTHEMUM DIVISIONS. Apply fertilizer rich in phosphate (5-10-5 or 7-6-5) to plants divided earlier. After the plant is 6 to 8 inches high, pinch back half way: it will be bushier. Pinched-off tops can be planted in soil or sand, kept moist and covered with flower pots for a few weeks--presto! new plants. Mums like sun, well-drained soil, plenty of food. Many colors, all proven varieties, will be available at the Annual Plant Sale May 10 and 11.

GROW GLADS. Spade soil 8 to 10 inches deep. Don't use manure now. Plant corms 2 to 6 inches deep depending on soil and size of corm (if planted deeper, less need for staking). Space 3 to 6 inches apart, depending on corm's size. Sprinkle with Ortho Soil and Bulb Dust* before covering. When the plants grow their fourth leaf give a feeding of superphosphate, chelated iron or all-purpose fertilizer and water thoroughly. Spray every two weeks with malathion to control thrips. Glads like full sun, plenty of water and good drainage. Cultivate shallowly. Irrigate heavily after bloom spikes show.

HUMMINGBIRDS THRUMMING? Red salvia, scarlet runner bean, cardinal flower, trumpet-vine, morning-glory, beardlip penstemon, gladiolus — most red to orange trumpet-shaped flowers will attract these delightful birds.

DAHLIAS prefer well-drained, rich soil. Add manure to the bottom of a hole 12 inches deep and a foot wide. Mix well. Add 2 or 3 inches of soil. Lay the root on its side so the eye is up and about 6 inches deep. Cover with some soil. If roots are sprouted, as suggested in April newsletter, transfer to a permanent location and place so sprouts extend above the soil. Fill in the hole as the plant continues to grow. Dahlias tolerate some shade and like a mulch of well-rotted manure.

INSECTS ARE COMING. Check Spring Issue of *The Green Thumb* magazine, pages 50 and 51, for control of pine tip moth, hackberry nipple gall, leaf roller and other pests.

FRUIT WORM AND CODLING MOTH. Contact your local extension agent or sprayman for an effective

spray program if fruit trees have been heavily infested in the past. Or, the following schedule is offered: spray with a mixture of malathion and DDT or malathion and Sevin 10 days after petal fall. Repeat every 10 days but do NOT spray within 30 days of harvest.

**Trade names mentioned are intended for information and endorsement is not implied.*

NEWS ITEMS

1968 ANNUAL PLANT SALE — May 10 and 11, Friday and Saturday, 9:30 a.m. to 5:30 p.m. Just in time for Spring planting — A Plant for Every Purpose!

You will find most of your old favorites plus a few that were not available previously, and some newly developed varieties in annuals, perennials, trees, shrubs and rock garden plants. The Donated Plant Section will have bargains for everyone: rhubarb, sweet woodruff, dwarf iris, veronica, day lilies, Shasta daisies, at very reasonable prices.

The cactus crop is excellent and is about five weeks-ahead of the season in development. As usual, hardy and tender cacti will be on sale and some brand new varieties.

Twelve varieties of All-America gladiolus corms, as well as the new pleated and exhibition types are offered, along with specially selected dahlia tubers from the Denver Botanic Gardens test plot.

A fine assortment of pot-grown kitchen and fragrance herbs, planters, shallots, tomatoes, bell pepper plants and scented geraniums will be supplied.

House plants will be located in Boettcher Memorial Conservatory. African violets, single and double fuchsias, large-leaved decorator plants, Venus fly trap, and red-veined prayer plant are a few of the treasures accumulated by this division.

The Gift Shop will be in its new location — the South Room — and will offer an excellent selection of gift items, tools, seeds, gardening accessories, strawberry jars, vases, and garden wear.

The patio on the south side of the Conservatory will contain redwood furniture and an interesting assortment of plants suitable for hanging baskets and outdoor containers including tuberous begonias, geraniums and trailing plants.

Demonstrations in the Conservatory will include basic mechanics of flower arranging (Friday), techniques of drying flowers in silica gel (Saturday) 11 a.m. both days, by Avalonne Kosanke; planting a hanging basket by Ernie Bibee, 1 p.m. each day.

Illustrated Garden Talks at 2 p.m., Conservatory Garage: Herb Gundell "Planning and Planting Your Flower Garden," Friday, May 10; Dr. James R. Feucht, "Pest Control in the Home Garden," Saturday, May 11.

LECTURE — Thursday, May 23, 8 p.m., Conservatory, 1005 York Street. "The Creative Photographer" will be

NEWS ITEMS

presented by Jack Fason, Chief of Medical Audio-Visual Service, Veteran's Administration. This is the last lecture in the 1967-68 series.

SERIES of BOTANY FIELD TRIPS, co-sponsored by Denver Museum of Natural History and Denver Botanic Gardens, will begin May 8th and continue through June on alternate Wednesdays. Trip groups will leave Botanic Gardens House 8:30 a.m., returning early in afternoon. Leaders include Dr. Helen M. Zeiner and Dr. E. H. Brun-

quist. Pooling transportation necessary; please let us know a day or two in advance if you can provide or need it. Tel. 297-2547.

EXHIBITION OF WATERCOLOR PAINTINGS by the Colorado Watercolor Society, South Room of Conservatory, May 19-31. No admission charge.

HELEN FOWLER LIBRARY will be closed May 4, 11, 18 (Saturdays).

CALENDAR OF EVENTS

May, 1968

- | | | |
|-----|-----------------|---|
| 1) | 1:00-3:00 p.m. | University Women's Club — Main Room |
| 2) | 10:00-3:00 p.m. | Gift Shop Workshop — Main Room |
| | 7:00-10:00 p.m. | Denver Orchid Society — Main Room |
| 3) | 11:00-3:30 p.m. | Civic Garden Club — Main Room |
| 4) | 9:00 a.m. | Rocky Mountain District Rose Society Judging School |
| 5) | 9:00 a.m. | Rocky Mountain District Rose Society Judging School |
| 9) | 9:30-5:30 p.m. | Preparation for Plant Sale |
| | 8:00 p.m. | Denver Rose Society — Main Room |
| 10) | 9:30-5:30 p.m. | Plant Sale |
| | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 11) | 9:30-5:30 p.m. | Plant Sale |
| 13) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 14) | 9:00-12:00 a.m. | Herbarium Committee — Herbarium Room Botanic House |
| | 7:30 p.m. | Colorado Landscape Science Foundation Meeting, Botanic Garden House |
| 15) | 12:45 p.m. | Div. D., Civic Garden Club — Main Room |
| 17) | 7:30 p.m. | Botany Club — Main Room |
| 21) | 12:00-4:00 p.m. | African Violet Council — Main Room |
| 23) | 8:00 p.m. | Lecture: Jack Fason, Conservatory Garage |
| 24) | 10:00 a.m. | Ikebana — (Lowry Officer's Club) |
| | 7:30-10:00 p.m. | Men's Garden Club — Main Room |



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GARDENING TIPS FOR JUNE

THINK YOUNG. Prune flowering trees and shrubs as soon as blossoms have faded. This stimulates new growth and makes healthy flower buds for next season. Remove oldest shrub canes to keep plants vigorous.

TOMATO STAKES ARE HIGH. Plants take little space and fruit is off the ground if they are staked. Use 1 x 2's at least 6 feet long, two stakes to a plant placed about 8 inches apart. Drive the stakes into the ground at least a foot. Plant stocky tomato plants in rich soil between stakes. After plants are established don't cultivate deeply, mulch instead, because tomatoes are surface rooters. As the plant grows tie shoots (not too firmly) with soft twine. Keep heavy branches but remove suckers.

ELMS — A Sticky Problem. American elm often exudes a sticky mist-like substance, symptom of elm scale. If your trees show such signs, arrange now for crawler-stage spray in late June.

INSECT BOOM. With the relatively mild temperatures of last winter gardeners should be alert for a possible insect explosion. Check the spring issue of *The Green Thumb* magazine for control of such insects as leaf roller, mahonia leaf looper, lilac leaf miner, borer, spider mite, aphid, cedar-hawthorn rust.

SOD WEBWORM. One of many causes of brown patches in the lawn might be sod webworm. Lift sod and if worms are present treat area with chlordane* or dieldrin.

FIRE-BLIGHT. Hawthorn, apple, mountain-ash and pear should be examined for recurrence of fire-blight. To remove damaged wood cut 4 to 6 inches below shriveled or dead tissue, and after each cut disinfect tool (either saw or pruner) with straight clorox. If damage is extensive call a reliable tree surgeon.

SIZING UP EVERGREENS. Break pine and spruce candles in half when the needles begin to spread. This practice will increase density and retard fast growth. Upright junipers can be sheared to shape, but spreading junipers as tamarix, savin, pfitzer, horizontalis, should be cut to desired height to a lateral branch, then cut lateral back about half.

PERENNIAL DOINGS. When Oriental poppies have finished blooming take off most of the foliage and save only a few leaves on the flowering stalk. This makes room to plant annuals. Remove the poppy stalk when the plant matures. Foliage of early-flowering bulbs should be removed when brown. Leave peony and iris foliage undisturbed. Give iris stalks a quick jerk to remove. Feed, cultivate and mulch borders.

WATERING HANGING BASKETS. Punch holes in the sides of a juice can or the stem and sides of a funnel. If using a funnel, plug the stem. Insert the can or funnel

into the center of a hanging basket. By pouring water into this small container the soil will be will moistened and you'll miss the drip.

ROSE CARE was summarized by Herb Franson in the spring issue of *The Green Thumb*. Last fall's early hard freeze came before many roses were protected, hence a lower survival rate this spring. Container-grown plants can be used now to replace those that fail to show growth.

**Trade names mentioned are intended for information and endorsement is not implied.*

NEWS ITEMS

PATIO AND GARDEN SALE, June 14 and 15, 10 a.m.-6 p.m., Boettcher Memorial Conservatory, 1005 York Street, a special event sponsored by the Garden Club of Denver. Many special items for summer gardens include planted hanging baskets and planters, bird baths, table and garden statuary, outdoor place settings, and plants. Proceeds are earmarked for Denver Botanic Gardens.

THE 1968 ANNUAL PLANT SALE was another success, according to the Chairman, Mrs. Graham B. Morrison, who is proud of the outstanding performance of the 20 division chairmen who organized, managed, and operated their special departments. In all, 340 volunteers participated in this once-a-year event and their unstinted cooperation is responsible for the Sale's success. Mrs. Morrison reports that service, plants and materials were well received.

A 1968 BROCHURE, serving as a printed guide to an informed tour of Denver Botanic Gardens' York Street site, is being distributed through public outlets and in Boettcher Memorial Conservatory. The numbered map is accompanied by a key to various planted areas. A brief description of each of the three units comprising Denver Botanic Gardens and condensed historical material are included. Hours and times during which each unit is open are listed.

As with any garden, certain annual and perennial beds undergo change through the seasons. You will find some of your favorites in new locations this year. Tulips and other bulbs are in the last stages of blossoming now, but they will be followed by a colorful show of iris in the 1967 National Convention plot in the northwest corner of the York Street site. At the same time, the attractive iris varieties near the York Street entrance will be in bloom. Oriental poppies, peonies, and roses will announce their presence through June.

HIGH SCHOOL BOTANY CLASS is being repeated this summer with classroom and laboratory activity scheduled in Boettcher Memorial Conservatory, and outdoor garden work plots located along the south side of the grounds.

NEWS ITEMS

THE GIFT SHOP has moved to its new quarters in the South Room. The Committee has stocked a large supply of gardening and other books where you will find *Rocky Mountain Horticulture* by George Kelly; *Meet the Natives* by M. Walter Pesman; a dozen different titles on Ikebana (priced from \$1 to \$20); and *The Life of the Mountains* and *The Life of the Forest*, latest additions in "Our Living

World of Nature," published by McGraw-Hill and the World Book Encyclopedia.

The Gift Shop also carries Corona and Wilkinson gardening tools, such as pocket pruners, flower gatherers, mini-shears for flower arranging and wire cutting. Decorative pots for many uses are available. Try the Gift Shop for your next gift search!

CALENDAR OF EVENTS

June, 1968

- | | | |
|-----|-----------------|--|
| 6) | 10:00-3:00 p.m. | Gift Shop Workshop — Main Room |
| | 7:00-10:00 p.m. | Denver Orchid Society — Main Room |
| 7) | 11:00-3:30 p.m. | Civic Garden Club — Main Room and Dining Room |
| 10) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 11) | 9:00-12:00 noon | Herbarium Committee — Herbarium Room |
| | 1:00 p.m. | Editorial Committee — Main Room |
| 13) | 8:00 p.m. | Denver Rose Society — Main Room and Dining Room |
| 14) | 10:00-6:00 p.m. | Garden Club of Denver — South Room Conservatory and Entrance |
| | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 15) | 10:00-6:00 p.m. | Garden Club of Denver — Conservatory |
| 21) | 7:30 p.m. | Botany Club — Main Room |
| 28) | 10:00 a.m. | Ikebana — Main Room |
| | 7:30-10:00 p.m. | Men's Garden Club — Main Room and Dining Room |



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GARDENING TIPS FOR JULY

Lawn Care. If hot, dry weather continues soak lawn deeply and less often. Dry spots in a well-irrigated lawn might indicate need for aeration. Test depth of water penetration with a probe. If the probe does not go down easily aerate spot with a foot aerator or spike with fork tines. A balanced fertilizer, high in nitrogen, should be applied about every 6 weeks. Iron containing compound is also beneficial. Straight nitrogen should be applied with caution, burning occurs readily in hot weather. Mowing height should be 2 or even 2½ inches for Kentucky bluegrass. Merion bluegrass can be cut a little shorter — 1½ inches. Catch clippings if possible.

Roses and Evergreens. Check for aphids and control with multi-purpose spray or malathion* except on Canaert juniper. Syringing with a force of cold water will deter red spider and rid evergreens of dead growth.

Dust Tomatoes at 7 to 10-day intervals to control psyllid yellows infection. A special dust is available for tomatoes. Sulfur will control psyllids; Sevin for control of fruit and horn worms; and Captan 50 or Zineb for blight diseases. Tomatoes like deep irrigation; some sandy soils require weekly irrigation and with heavy soils, 14 to 18 days is often enough.

Pinyon Pine needle drop will begin this month, so don't be alarmed needlessly. Check the spray chart in *The Green Thumb* for other pinyon problems.

Patio Patter. Give small amounts of fertilizer once or twice a month to plants in containers. Decayed, ground manure mixed with soil provides mulch and nutrients for begonias. Evergreens in tubs can be given foliar feeding and a mulch of peat and manure. If geraniums were potted in good soil they need no additional food. Check frequently to see that the soil is moist.

Looking Ahead. Order new varieties of iris, poppy, lily and daylily for early planting. Renew mulches to keep soil cool and moist and to conserve water. For preventive thrip control on gladiolus, privet and dahlia, spray with malathion every 2 weeks.

Care of Cut Flowers. Although studies show flowers should be picked in the evening when sugar content is highest, many experts consider early morning the most satisfactory time. Plunge flowers immediately in a pail of or until flowers are arranged. Such flowers as roses, or until flowers are arranged. Such flowers are roses, gladioli, and peonies are better cut before the buds are fully opened. Some rosarians plunge roses to their necks in water and cover the container with a plastic bag, a few wrap the rose (stem and blossom) with plastic and store in an upright position in the refrigerator. Stems on dahlia and poppy (and other milky-stemmed flowers) must be burned. Woody stems are split or crushed. When flowers are arranged cut the stems again with a slanting cut and use

fresh water. Some use sugar or chemicals to prolong the life of the blossoms. Changing water daily to retard bacterial action is most important.

**Trade names mentioned are intended for information and endorsement is not implied.*

NEWS ITEMS

1968 TERRACE AND GARDEN TOUR — August 6th (Tuesday), 10 a.m. to 8 p.m. Ten attractive gardens are included in this annual summer event, conducted by Denver Botanic Gardens Guild for the benefit of Denver Botanic Gardens:

Mrs. Stanley E. Morse, 7 Tamarac Lane
Mr. and Mrs. R. P. Davison, 5 Tamarac Lane
Mr. and Mrs. Stanley Larson, 3230 S. Monroe
Mr. and Mrs. Lawrence Bucher, 3090 S. Steele
Mr. and Mrs. Arnold B. Gurtler, Jr. 3245 S. Steele
Mr. and Mrs. Edwin Glick, 201 Dexter Street
Mr. and Mrs. Bruce Alexander, 290 Dexter Street
Mr. and Mrs. Robert L. Davis, 778 Hudson Street
Dr. and Mrs. Miles R. Markley, 1120 Hudson Street
Mr. and Mrs. Alan Fisher, 1360 Race Street

Tour tickets are available at Botanic Gardens House (297-2547), 909 York Street; Conservatory Gift Shop (297-2348), 1005 York Street; or from any member of the Guild. Donation \$3.00, tax deductible.

Again, **box suppers** will be served at Botanic Gardens House, 5:30 to 7 p.m., at \$2.00 each, including coffee or cold drink. Supper tickets must be purchased by Friday, August 2nd.

Transportation will be provided at \$1.00 per round trip. Bus schedules will be carried in the August Green Thumb Newsletter. For bus reservations and departure times call Mrs. Davis Stone, 377-5918, AFTER JULY 15th.

A new feature this year is door prizes, which will include flower arrangements and garden equipment. Drawing will take place at 7 p.m. at Botanic Gardens House: it is not necessary to be present to win.

JOIN THE ASSOCIATES! Want to grow with Denver Botanic Gardens? Associates of Denver Botanic Gardens, an organization of volunteers, seeks members. Especially needed are trainees in the Conservatory Tour Guide Program and Gift Shop personnel.

With the expansion of the Gift Shop into the South Room, additional sales people are needed on a regular weekly basis. Shifts are usually 3 hours, 10 a.m. to 1 p.m. and 1 p.m. to 4 p.m. The Shop is open 6 hours daily and 4 hours on Sunday.

Summer is an excellent time to enroll in the Tour Guide program. Depending on the number of hours a member is able to devote to learning, guides require from

NEWS ITEMS

one to three months before they gain confidence to serve during the regular school year.

Contact Mrs. Graham B. Morrison, membership chairman, (424-0706) for information about the Associates.

BOTANY FIELD TRIPS, co-sponsored by Denver Museum of Natural History and Denver Botanic Gardens, will continue into August with some slight changes of dates, according to Dr. E. H. Brunquist. The bi-weekly trip will be held July 3rd and probably July 17th and 31st. At least

one trip will be taken to the Alpine Garden on Mt. Goliath, where the M. Walter Pesman trail winds through the alpine and sub-alpine zones.

The DENVER ART CLUB is displaying a collection of flower and landscape oil paintings in Boettcher Memorial Conservatory through the month of July.

The GIFT SHOP offers Edible Native Plants of the Rocky Mountains, by H. D. Harrington. Illustrated by Y. Matsumura, this exceptional book makes an attractive gift and a valuable addition to any library. Priced at \$8.95.

CALENDAR OF EVENTS

July, 1968

- | | | |
|-----|------------|--|
| 1) | | Colorado Mycological Society — Main Room |
| 4) | | Gift Shop Work Shop — no meeting in July
Denver Orchid Society — no meeting in July |
| 8) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 12) | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 15) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 19) | 7:30 p.m. | Botany Club — Main Room |
| 21) | 3:00 p.m. | Denver Rose Society — Main Room |
| 22) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 26) | 10:00 a.m. | Ikebana International — Main Room |
| | 7:30 p.m. | Men's Garden Club — Main Room |
| 28) | | Colorado Cactophiles (Field Trip) |
| 29) | 7:30 p.m. | Colorado Mycological Society — Main Room |



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GARDENING TIPS FOR AUGUST

Dividing Time. Iris, poppy and daylily are among the perennials that can be divided now.

Plant Soon. Madonna lily, other true lilies, colchicum, fall crocus and helleborus (Christmas rose and Lenten rose) should be planted as soon as available.

Softwood Cuttings of hard-to-find varieties of desirable shrubs can be taken late this month. Viburnum, cotoneaster, pyracantha, ninebark and some lilacs can be started with cuttings 3 to 4 inches long or 2 to 3 nodes long. Santolina roots easily at this time. Snip off the tip or soft growth, strip lower leaves and insert cuttings about 2 inches deep in moist sand in a cool, shaded area. Cover cuttings with glass, plastic or plant in a cold frame. Keep moist. After rooted, cuttings can be potted or left undisturbed for planting in permanent locations next spring.

Milky-white Vines? Spray ivies and ornamental grapes with DDT to control leafhopper, omit edible grapes (DDT kills pests, sometimes people).

Mildew. Control this disease early with dusting sulphur or karathane. Especially susceptible are zinnias, fall asters and some roses.

Taper Off watering and fertilizing trees, shrubs and roses after mid-August. This hardening-off period prevents serious damage from possible early freezing.

NEWS ITEMS

1968 TERRACE AND GARDEN TOUR —
August 6th (Tuesday) 10 a.m. to 8 p.m.

Tour tickets available at Botanic Gardens House (297-2547), 909 York Street; Conservatory Gift Shop (297-2348), 1005 York Street; or from any member of the Guild. Donation \$3.00, tax deductible.

Box Suppers, at \$2.00 each, including coffee or cold drinks, 5:30 to 7 p.m., at Botanic Gardens House.

Bus Reservations, \$1.00 each, must be made in advance by calling Mrs. David Stone, 377-5918. De-

parture times, from Botanic Gardens House, 10 a.m. and 2:00 p.m. Groups are welcome.

Door Prizes: All ticket holders are eligible and need not be present to win a prize. Drawing at 7:00 p.m. at Botanic Gardens House.

See 10 of the most attractive gardens in Denver in this annual event conducted by Denver Botanic Gardens Guild for the benefit of Denver Botanic Gardens. Have your green thumb questions answered on the spot. Individual gardens were listed in the July Green Thumb Newsletter.

ASSOCIATES announce the appointment of Mrs. Lucille Roberts as bookkeeper, and Mrs. Mary Secrest as assistant manager of the Denver Botanic Gardens Gift Shop. The new appointees are filling these posts at the present time and will continue through the coming fiscal year, Oct. 1, 1968 to Oct. 1, 1969.

August 18th, 1:00-5:00 p.m., Denver Dahlia Show, South Room, Conservatory.

August 25th, 10:00 a.m.-5:00 p.m., Gladiolus Society Seedling Show, South Room Conservatory.

REQUEST FOR BOTANICAL BOOKS —
The Helen Fowler Library, consisting of approximately 5,000 books and 100 current periodicals, is housed in Botanic Gardens House, 909 York Street. It is the largest collection of botanical works in the Rocky Mountain area and is open to the public without charge for reading and reference from 10 a.m. to 3 p.m. daily, except Sunday and holidays. Membership in the Gardens allows for liberal checking out privileges.

Represented in the collection are botanical works on native plants, trees, shrubs, vines, tropical plants, flowers, gardening, landscaping, rock gardens, flower arranging, house plants, and other related subjects.

The Library had its beginning with the Colorado Forestry and Horticulture Association before it merged with Denver Botanic Gardens in 1960. Many contributions of collections, sets, and individual copies of books relating to botany have been received from time to time, as well as some financial aid.

No doubt, some of our Green Thumb friends, or someone they know, have books in the above classifi-

NEWS ITEMS (continued)

cation which would be of value to the Helen Fowler Library. Also, any rare or unusual botanical books will be appreciated and will find a place in the section reserved for such highly prized publications.

In our publications department we find some issues missing, and would appreciate filling the gaps

with donated numbers. If you are in possession of periodicals on botanical subjects we will be glad to list our needs with you.

BOTANY FIELD TRIPS, co-sponsored by Denver Museum of Natural History and Denver Botanic Gardens, will continue through August 7th and 21st.

CALENDAR OF EVENTS

August, 1968

- | | | |
|-----|----------------------|---|
| 1) | | Gift Shop Work Shop (no meeting) |
| | | Denver Orchid Society (no meeting) |
| 5) | 7:00-9:30 p.m. | Colorado Mycological Society — Main Room |
| 6) | | Guild Garden and Terrace Tour; box supper |
| | | (See News Item for bus schedules and other information) |
| 8) | | Denver Rose Society (members will be notified of date) |
| 9) | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 12) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 13) | 1:00 p.m. | Editorial Committee — Dining Room |
| 14) | 12-3:00 p.m. | East Side Garden Club — Main Room |
| 16) | 7:30 p.m. | Botany Club — Main Room |
| 18) | 1:00-5:00 p.m. | Denver Dahlia Show — South Room, Conservatory |
| 19) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 20) | 10:00 a.m.-12 | Lakewood Women's Club — Main Room |
| 23) | 10:00 a.m. | Ikebana International — Main Room |
| | 7:30-10:00 p.m. | Men's Garden Club — Main Room |
| 25) | 10:00 a.m.-5:00 p.m. | Gladiolus Seedling Show — South Room, Conservatory |
| | | Colorado Cactophiles (meeting elsewhere) |
| 26) | 7:30 p.m. | Colorado Mycological Society — Main Room |



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GARDENING TIPS FOR SEPTEMBER

Fall Roses often boast deepest color and richest fragrance, but pests and disease can be most prevalent now. Control aphid and red spider with Malathion*, Isotox or a systemic. Mildew can be treated with Actidione PM. Late this month harden off roses for winter.

Chrysanthemums, Color Boon to the dull garden, can be planted now in full bloom if moved in clumps or pots.

Autumn Bonus. Colchicum (meadow saffron) can be planted now (sometimes bulbs are even blooming) for spectacular fall color. Although colchicum is available in white, pink or shades of lilac, light lavender is most common. Plant bulbs in sandy soil or add a shovel of sand for good drainage. Their heavy foliage appears in early spring, then fades, and blossoms appear without foliage in fall. Sweet woodruff is a good garden companion.

Spring Ahead. Tulips, daffodils, hyacinths and other spring-flowering bulbs should be planted as soon as available. Early planting permits good root action now for better blossoms next spring.

Lawns. Fall is an excellent time to start new lawn, repair worn ones, and revitalize established turf. Bluegrass makes good root growth and side growth during cool seasons. A complete fertilizer, as 20-10-5 plus iron compound, can be applied now at the recommended rate (up to two pounds actual nitrogen per 1000 square feet) and watered in thoroughly. Any nitrogen not used at this time will be available next spring.

Bug Patrol. If the month is dry look for aphid and red spider on evergreens, especially upright junipers and pines. If weeping willows have shiny appearance no doubt aphids have taken a shine to your trees. They also like American elm now. Spray with Malathion. Elm leaf beetle prefers Chinese elm, skeletonized leaves indicate its presence. Spray with Sevin.

Caterpillars at Work on Mahonia (Oregongrape) can be controlled with a systemic such as Ortho Rose and Flower Care.

Tomato Hint. With a knife or snippers thin heavy foliage on tomato plants. Leave sufficient foliage to prevent sunburn but light enough to permit warm air circulation to ripen fruit.

Now and Forever. Foliage in fall color or in summer dress can be preserved for winter use. Good subjects for beginners are rose foliage, aspen, sycamore and Oregongrape (Mahonia repens and M. aquifolium). Dilute one part glycerin with two parts hot water. This mixture can be used repeatedly. Slit stems and insert them in the solution until leaves are impregnated; time varies with material — from one to several days.

Inward Bound house plants should be brought indoors before nights are so cold plants must adjust, then re-adjust to warm houses. To keep plants over, winter cuttings (about 4 inches) can still be taken from fibrous begonia, sultana, coleus and geranium.

NEWS ITEMS

PRESIDENT'S COUNCIL OF DENVER, composed of past and current presidents of women's local service clubs, presents a Silver Tea in the South Room of Boettcher Memorial Conservatory, 1005 York Street, Sunday, September 29, 3-5 p.m. Proceeds will benefit the Children's Garden Summer Program at Denver Botanic Gardens. The public is invited.

THE DENVER ALLIED ART GUILD exhibition of paintings, South Room of Conservatory, September 14 to October 14. Open to the public at no charge.

AUDUBON WILDLIFE FILMS: "Land of the Giant Cactus" by Allan D. Cruickshank will be presented by Denver Museum of Natural History and National Audubon Society, Phipps Auditorium, 7:30 p.m., Friday, September 17; photography and lecture on plant and animal life in Arizona's desert region. No admission charge.

GIFT SHOP

The Annual Christmas Gift Shop Sale will be held Friday and Saturday, November 29 and 30, 10:00 a.m. - 4:30 p.m., South Room, Conservatory.

The Gift Shop is prepared at all times to help you with your shopping for any occasion. An ample and diversified book list gives you a choice for friends or members of the family; special gift items may be ordered if not in stock; and a Christmas personal greeting card catalog (designs by Ravia) is now available for placing your orders early.

Summer Fragrance Preserved is possible from potpourri materials now in stock at the Gift Shop for filling rose jars or making sachets. Included are dried rose petals, perfume oils, and orris root.

While you are in the Gift Shop, pick up a CATNIP BAG for your favorite cat.

A new supply of the natural dried flower bookmarks, a product of the Workshop Committee, has been received at the Gift Shop. You will find dozens of colorful summer blooms captured between plastic coverings in pleasing designs. Perhaps this is the time to reap your harvest of these small but exceptional gifts that fit nicely inside a greeting card or letter.

Easy Gardening with Drought-resistant Plants, by Arno and Irene Nehrling, is a recent addition to the Helen Fowler Library and is also available at the Gift Shop. It is an authoritative book on drought conditions in the home garden and deals with a multitude of problems where watering is concerned. A comprehensive index and profuse illustrations add to the usefulness and charm of this publication. Library hours are 10 a.m. - 3 p.m. daily, except Sunday.

CALENDAR OF EVENTS

September, 1968

- | | | |
|-----|------------------------|---|
| 2) | 7:30 p.m. | Colorado Mycology Society — Main Room |
| 5) | 9:30 - 11:00 a.m. | Rocky Mountain African Violet Council — Dining Room |
| | 10:00 a.m. - 3:00 p.m. | Gift Shop Workshop — Main Room |
| | 7:00 - 10:00 p.m. | Denver Orchid Society — Main Room |
| 9) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 10) | 9:00 a.m. | Herbarium Committee — Herbarium |
| | 1:00 p.m. | Editorial Committee — Dining Room |
| 11) | 9:15 - 11:30 a.m. | Denver Botanic Gardens Guild — Main Room |
| 12) | 8:00 p.m. | Denver Rose Society — Main Room |
| 13) | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 14) | to October 14 | Denver Allied Art Guild Show — South Room, Conservatory |
| 17) | 12:30 p.m. | African Violet Council — Main Room |
| 20) | 7:30 p.m. | Botany Club — Main Room |
| 26) | 9:30 a.m. - 2:30 p.m. | Around the Seasons Club — Main Room |
| 27) | 10:00 a.m. | Ikebana International — Main Room |
| | 7:30 - 10:00 p.m. | Men's Garden Club — Main Room |
| 29) | 3:00 - 5:00 p.m. | President's Council Tea — South Room, Conservatory |
| | 2:00 p.m. | Colorado Cactophiles — Main Room |



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GARDENING TIPS FOR OCTOBER

Prepare or Repair perennial borders. Prepare perennial beds at the garden's edge rather than in the center of the lawn. If the old border lacks vitality lift plants, rework the soil and reset plants. Do not disturb peony or gas-plant. If the soil is clay, incorporate at least 2 inches of equal parts sand, peat and ground cow manure. Sandy soil needs only peat and manure.

Mow and Trim lawn as long as it continues to grow. Water thoroughly when necessary to keep grass green. A final cutting about 1½ inches high will prevent its being smothered with possible heavy snow.

Borers Boring? Check the base of peach, cherry, flowering almond or plum for a brown jelly-like substance mixed with sawdust; its presence indicates peach tree borer. Dig at the trees's base to remove the pests bodily or spray base of trunk with peach tree borer control. Napthalene flakes are sometimes recommended.

Aphis Working in upright juniper, Austrian and ponderosa pines can be controlled with Malathion*.

Minor Bulbs — Major Dividends. Especially appropriate for sunny rockeries are "minor" bulbs planted now. Try winter aconite, crocus, miniature and dwarf daffodils, scillas, snowdrop, and puschkinia. Early spring surprises are the wildling tulips: turkestanica, dasytemon, clusiana (peppermint striped) and acuminata (slender yellow petals edged red and changing to red). Bulbous Iris danfordiae (yellow) and I. reticulata (purple) are also delightful.

Winter Ahead. Frost-killed perennials can be cut back 2 or 3 inches above the ground. Do not cut iris foliage. Rake loose trash from lawn and borders. Dig and store bulbs and tubers after a killing frost.

Dead Wood in large spruce and pine trees can be removed any time to eliminate breeding places for insects. Some spruce, Austrian, ponderosa, white and limber pines lose inner needles at this time of year. Sometimes small branches die. This shedding is normal.

**Trade names mentioned are intended for information; endorsement is not implied.*

NEWS ITEMS

UNIVERSITY THRIFT SHOP, 601 Ogden Street, has reserved the week of January 27 through February 1, 1969, for benefit of Denver Botanic Gardens. You are requested to bring your unwanted items to Botanic Gardens House, 909 York Street, any time before Saturday, January 18, 1969, where they will be held until time for delivery to the shop. Botanic Gardens House is open Monday through Friday, 8 a.m. to 5 p.m. Telephone: 297-2547.

The following items are acceptable: Clothing for men, women, and children including shoes and accessories; kitchenware and small appliances in working condition; lamps, dishes, glassware, small office equipment and household furnishings; bicycles, tricycles, wagons, toys, radios, musical instruments, cameras, books, and other articles that may be resold.

Unacceptable are worn-out or soiled clothing, bathing suits, underwear; broken toys and incomplete games; heavy furniture and large appliances, worthless items. Since this is not a rummage sale, only good quality, clean merchandise is requested.

Please deliver articles in boxes with identification written on outside: "books", "shoes", "dishes", etc.

HERB VINEGAR: Denver Botanic Gardens Guild offers the familiar herb vinegar and a limited supply of tarragon vinegar at \$1.00 per pint bottle. Telephone orders taken between November 4th and 29th by Mrs. Charles Parker, 781-4827. Pick-up date is Wednesday, December 11th, 9 a.m. - 5 p.m., in Conservatory.

DENVER ARTISTS GUILD is showing a collection of pictures in the Conservatory, October 17th to November 25th. Public is invited; no charge.

LECTURE: First in the 1968-69 series will be presented by Dr. H. D. Harrington who has made a special study of the native flora of the Rocky Mountains. He will illustrate his talk with colored slides. From 7:00 to 8:00 p.m., preceding his lecture, he will autograph his most recent publication, "Edible Native Plants of the Rocky Mountains", for purchasers.

AUDUBON WILDLIFE FILMS: "The Land the Glaciers Forgot", by Howard L. Orians, will be presented by Denver Museum of Natural History and National Audubon Society, Phipps Auditorium, 7:30 p.m., Friday, November 1. Free.

THE AFRICAN VIOLET COUNCIL will hold an African Violet plant sale Saturday, October 19, 10 a.m. to 3 p.m. in the Conservatory. Violets, gesneriads, some special plant supplies and literature will be available. Members of the Council will be on hand to answer questions.

CALENDAR OF EVENTS

October, 1968

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| <p>3) 10:00 a.m.-3:00 p.m. Gift Shop Workshop - Main Rm.
7:00-10:00 p.m. Denver Orchid Society - Main Rm.</p> <p>4) 12:00 noon Civic Garden Club - Dining and Main Rm.</p> <p>8) 9:00 a.m. Herbarium Committee - Herbarium
2:00 p.m. Garden Club of Denver Tea - Main Rm.</p> <p>10) 8:00 p.m. Rose Society - Main Rm.</p> <p>11) 7:30 p.m. Denver Dahlia Society - Main Rm.</p> <p>14) 7:30 p.m. Colorado Mycological Society - Main Rm.</p> <p>15) 1:30 p.m. Editorial Committee - Dining Rm.</p> | <p>16) 1:30 p.m. Associates Annual Meeting - Main Rm.</p> <p>17) 8:00 p.m. Lecture - Conservatory (See news item)</p> <p>17) to Nov. 25 Denver Artists' Guild Show - Conservatory</p> <p>18) 7:30 p.m. Botany Club - Main Rm.</p> <p>19) 10:00 a.m.-3:00 p.m. African Violet Council sale - Conservatory</p> <p>24) 9:30 a.m.-2:30 p.m. Around The Seasons Club - Main Rm.</p> <p>25) 10:00 a.m. Ikebana International - Main Rm.
7:30-10:30 p.m. Men's Garden Club - Main Rm.</p> <p>27) 2:00 p.m. Colorado Cactophiles - Main Rm.</p> <p>Nov. 1) 12 noon Civic Garden Club - Main and Dining Rm.</p> |
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THE 1968-69 LECTURE SERIES is scheduled for 8 p.m. in Boettcher Memorial Conservatory, 1005 York Street. Tickets \$1.00 each: Series of six lectures \$5.00.

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| October 17, 1968 | Dr. H. D. Harrington, Professor of Botany, Colorado State University:
<i>"Edible Native Plants of the Rocky Mountains."</i> |
| November 14, 1968 | F. L. S. O'Rourke, Associate Professor of Horticulture, Colorado State University:
<i>"Trees for Tomorrow."</i> |
| February 27, 1969 | Dr. Louis B. Martin, Director, Denver Botanic Gardens:
<i>"Denver Botanic Gardens Master Plan."</i> |
| March 27, 1969 | Dr. James R. Feucht, Extension Area Horticulturist, Colorado State University:
<i>"Common Poisonous Plants In and Around the Home."</i> |
| April 24, 1969 | Mrs. Ruth Ashton Nelson, Writer, Teacher of Plant Identification and Informal Botany: <i>"Greek Wild Flowers."</i> |
| May 22, 1969 | Kenneth Horn, Supervisor, Secondary Science, Denver Public Schools:
<i>"Outdoor Education Potential for the Denver Public Schools."</i> |



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GARDENING TIPS FOR NOVEMBER

Insect Inspection. Check for scale on aspen, ash, coto-neaster, dogwood, forsythia, lilac, cottonwood, willow and elm. Aphids, too, should be controlled on elms and ever-greens. Arrange now for dormant spraying.

How Dry They Are. Evergreens, particularly, need a thorough soaking. In late November apply water slowly for at least half a day at the base of large trees whether deciduous or evergreen.

Trim and Shape shrubs and shade trees. Removal of dead canes and branches as well as older canes will encourage healthy new growth next spring. Mulching plants with manure affords deep fertilization and conserves moisture.

Put Roses to Bed. Before the ground freezes, roses should be soaked to deepest roots and mulched for winter. Those roses planted with the bud union at ground level or above, especially, should be mounded to 8 or 10 inches with porous soil taken from a separate part of the garden. Another winter protection method is surrounding plants with mesh cylinders and filling them with soil or leaves. Tall canes should be cut back to 30 inches.

Tidy the Garden. Rake leaves and evergreen needles. Mulch flower and shrub borders with leaves other than cottonwood or sycamore. Destroy shed needles; they can be a fire hazard and are not beneficial when added to soil.

Icy Conditions Ahead. Commercial de-icers and rock salt are damaging to plants. Instead, use ammonium sulfate, ammonium nitrate or urea on icy paths, for these chemicals fertilize wherever they penetrate.

Rock Garden Bound? Haul or prepare soil now so it can settle. Order rocks or collect them whenever weather permits. Remember that rocks should be in scale with the garden, a few large rocks are more satisfactory than many small ones. They should be one kind and color if possible.

NEWS ITEMS

HERB VINEGAR — Telephone orders between Nov. 4 and 29 to Mrs. Charles Parker, 781-4827; pick-up orders in Boettcher Memorial Conservatory, 1005 York St., Wed., Dec. 11, 9 a.m.-5 p.m.

ORCHID SHOW—Denver Orchid Society will exhibit a large variety of orchids in the Conservatory, Saturday and Sunday, Nov. 9 and 10, 10 a.m.-5 p.m. Growing plants, cut blooms, and arrangements will be shown. Public is invited.

GIFT SALE—The Associates Gift Shop Committee will hold its annual pre-Christmas Sale, Friday and Saturday, Nov. 29 and 30, 10 a.m.-4:30 p.m., South Room and Gift Shop, Conservatory. Bring your gift list to the Sale and find something for each member of the family, all your friends, and your cat.

Many new items are appearing this year and some of the Committee's selections are:

Books on floral arrangements; dried material arrange-ments; growing and cooking with herbs; wild flowers; Ikebana; general and specialized gardening; Japanese

gardens; birds; five different titles in flower books for children; and the very special "Pictorial Check List of Colorado Birds."

Stationery: Gwen Frostic notes and gift books; Ravia's Christmas and general paper items; and a new line of floral and animal notes.

Calendars are available in five different attractive types, and Italian botanical prints may be purchased for framing.

Jewelry items include the familiar native aspen leaves plated with gold, copper or silver; glossy colored seed neck-laces from South America, and the Hammond pansy pins.

The Fragrance Corner will offer all sorts of old-timey, sweet-smelling concoctions like sachets; pot pourri; "sweet bags" (to tie to your favorite rocking chair), and other treasures.

The Gourmet Corner will display special culinary gifts including mortars and pestles; small wooden butter molds; herb samplers (Colorado grown, dried cooking herbs); herb blended tea, and colorful aprons.

Ceramics come in many sizes of animal and botanical figures, vases, pots for holding plants, candle rings, creche figures, and other items in various grades of ceramic materials in appealing colors.

Wreaths and plaques, those uniquely beautiful, in-dividually crafted Christmas specialties produced by the Workshop Committee, will be for sale again this year. The Committee has also made a great many of the one-of-a-kind small animal figures from native dried plant materials.

Tree Decorations include the charming dried native plant ornaments, by the Workshop Committee; ceramic tiles in various shapes; glossy bread dough lamas, birds and Santas from Ecuador; straw figures from Sweden; and colorful felt and velvet ornaments. One line of Christmas tree lights comes in fruit and berry designs.

Miscellaneous items include brass sundials; large, hand-made floppy, green cloth frogs suitable for children from 8 to 80; piñatas in ample dimensions in brightly colored Santas, birds and mice; papier mache music boxes, a multi-tude of different sized candles in various types; long fire-place matches, fetchingly boxed; flat ceramic tiles to be attached to gift boxes; small hand-painted foot stools, on which a name and date may be painted on special order, and catnip bags.

LECTURE: F. L. S. O'Rourke, Associate Professor of Horticulture, Colorado State University will present an illustrated talk on "Trees for Tomorrow", Nov. 14, 8 p.m., Conservatory. He will discuss the selection of trees to fit into the rapidly changing habitat of man, filling a social as well as a practical need. Admission \$1.00.

ASSOCIATES of Denver Botanic Gardens reelected Mrs. Hayes W. Neil president at their annual meeting Oct. 16. Mrs. Phil Hayward was elected vice president, Mrs. Lucian E. Pope, reelected secretary, and Charles M. Wilkins, treasurer. Forty-one Associates were honored for contributing an unusual number of hours in the activities of the organization. Dr. A. C. Hildreth, Director Emeritus, received the first pin, signifying an excess of 1000 hours

NEWS ITEMS (Continued)

given, for his help in formation of the Associates in 1964. The names of the 41 honored will be inscribed on a scroll which will be placed in the Conservatory.

BENEFIT Denver Botanic Gardens by bringing your unwanted articles to Botanic Gardens House before January 18, 1969, to be delivered to the University Thrift Shop

for sale during the week of January 27 through February 1, 1969. The Gardens will receive a part of the proceeds. For information, telephone 297-2547.

HOLIDAY CLOSINGS: Botanic Gardens will be closed Election Day, Nov. 5; Armistice Day, Nov. 11; Thanksgiving, Nov. 28.

CALENDAR OF EVENTS

November, 1968

1) 12 noon	Civic Garden Club — Main Room	14) 8:00 p.m.	Lecture — F. L. S. O'Rourke — Conservatory
4-29)	Telephone orders for Herb Vinegar (See news item)	8:00 p.m.	Denver Rose Society — Main Room
5)	Election Day — Botanic Gardens House closed.	✓ 15) 7:30 p.m.	Botany Club — Main Room
7) 10:00 a.m.-3:00 p.m.	Gift Shop Workshop — Main Room	19) 12:00-4:00 p.m.	African Violet Council — Main Room
7:00 a.m.-10:00 p.m.	Denver Orchid Society — Main Room	1:30 p.m.	Editorial Committee — Dining Room
8) 7:30 p.m.	Denver Dahlia Society — Main Room	✓ 21) 9:30 a.m.-2:30 p.m.	Around the Seasons — Main Room
9-10) 10:00 a.m.-5:00 p.m.	Denver Orchid Society Show — Conservatory	22) 10:00 a.m.	Ikebana International — Main Room
11) 7:30 p.m.	Colorado Mycological Society — Main Room	7:30-10:00 p.m.	Men's Garden Club — Main Room
	Armistice Day — Botanic Gardens House closed	24) 2:00 p.m.	Colorado Cactophiles — Main Room
12) 10:00 a.m.	Herbarium Committee — Herbarium	28)	Thanksgiving — Botanic Gardens House closed.
13) 12:00-3:00 p.m.	East Side Garden Club Tea — Main Room	29-30) 10:00 a.m.-4:30 p.m.	Gift Shop Christmas Sale — South Room & Gift Shop in Conservatory
9:15-11:30 a.m.	Denver Botanic Gardens Guild—South Room, Con.		



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Merry Christmas



DECEMBER GARDENING TIPS

Bring Them In. Why not enjoy the colorful fruits on many shrubs now and into the holiday season? Sprays of coralberry, euonymus, bittersweet, red-berried viburnums, cotoneaster, privet and snowberry lend a festive air indoors. You'll need gloves to cut stems of brilliant barberries and pyracantha.

Prevent Snow Damage to pfitzer and savin junipers by cutting back longest branches to a lateral. The lateral will hide stubs and shaped plants will be ready for next season.

Winter Shade. Since bugs and plants are dormant, now is the time to wrap trunks of young smooth-barked trees to prevent sun-scald. A special tree wrap, available in garden shops, is neat, inexpensive and easy to apply. Clippings from spreading junipers (if pruned as suggested) or boughs of discarded Christmas trees will furnish light shade and air circulation for creeping evergreens and tender perennials as primrose and double shasta daisy, creeping phlox and kinnikinnick.

For the Birds. Fresh water daily is equally important as food for feathered guests in the winter garden. Begin with a good wild birdseed mixture plus a generous portion of sunflower seed. Raisins and most dried fruits, chopped nuts free of salt and SUET are important staples. Beef suet in pound or more chunks can be tied securely to a firm shelf, in a tall shrub or on a tree limb. Strong twine wound many times around the suet makes a safe holder; metal holders can injure birds' eyes and feet in freezing weather. Bread crumbs, attractive to sparrows and starlings, are often omitted by serious "birders". Place the feeder and most food off the ground where it is easily observed from the house but away from heavy low shrubs where cats can hide. Once you start feeding, keep it up or birds will suffer.

HOLIDAY WISHES from Bill Lucking and Bernice "Pete" Petersen, who prepared these tips during the past year. Our special thanks to Earl Sinnamon and numerous specialists and enthusiasts who shared their experience with you and us.

NEWS ITEMS

GIFT IDEA: Herb-flavored vinegar and a limited supply of tarragon-flavored vinegar are being sold again, at \$1.00 a pint bottle, by the Denver Botanic Gardens Guild. A superb gift idea, this vinegar can be ordered through December 9 by calling Mrs. Charles Parker, 781-4827. One day only has been designated for pick-up of vinegar orders: Wednesday, December 11, 9 a.m. to 5 p.m. in Boettcher Memorial Conservatory, 1005 York Street.

The study and growing of herbs on the Denver Botanic Gardens York Street site is a year-round project of the 48-member Guild. The annual vinegar sale is one of the group's money-making projects and proceeds from this event go into further expansion and continued maintenance of the herb garden.

BENEFIT: A Christmas Corner has been opened at University Thrift Shop, 601 Ogden Street, for benefit of Denver Botanic Gardens. It is stocked with holiday clothes, games, books, toys, white elephants, ski and other winter sports wear, and anything else gift-worthy. Please take your contributed articles directly to the Shop between December 2 and 21. Hours are 9 a.m. to 4 p.m., Monday through Saturday.

The original week of January 27 through February 1, 1969, set aside for Denver Botanic Gardens remains the same. Remember, a goodly portion of proceeds from both of these sales events goes to benefit Denver Botanic Gardens. After December 21, bring contributed items to Botanic Gardens House, 909 York Street. For information call 297-2547.

GIFT SHOP will be open daily until Christmas Day, when the Conservatory will be closed. Hours are 10 a.m. to 4 p.m., except Sunday: 12 noon to 4 p.m. Do some of your Christmas shopping here and "help us grow".

POINSETTIAS: More than a hundred large poinsettia plants will be displayed in Boettcher Memorial Conservatory through the holiday season. Through permission of Paul Ecke, hybridizer in California, William Gunesch, president of Park Floral Company, will provide this patented new variety which is one of five recently produced. The Eckespoint C-1 will comprise the show in the Conservatory. It is a nicely formed plant with long-lasting qualities in flower, leaf and stem, and bears many beautiful, wide, flexible bracts. The bracts are a clear, rich red and the centers are compactly formed. The plants are expected to maintain an attractive appearance through February. Conservatory is open 9 a.m. to 5 p.m. week days; 7-9 Friday evenings, and 10 a.m.-5 p.m. Saturday and Sunday. It will be closed Christmas Day.

AUDUBON WILDLIFE FILMS: "Missouri Northwest" by Roy Coy will be presented by Denver Museum of Natural History and National Audubon Society, Phipps Auditorium, 7:30 p.m., Friday, December 13. Free.

A MEMBERSHIP IN DENVER BOTANIC GARDENS can express Holiday Greetings, please an appreciative friend or relative, and help Denver Botanic Gardens grow. If we receive your order by Friday, December 20, we will send a special Gift Card in your name, which will be received by the new member before Christmas Day. Telephone 297-2547 for information — early!

NEWS ITEMS (Continued)

ASSOCIATES' ANNUAL TREE TRIMMING PARTY is scheduled for Friday, December 6, beginning at 7 p.m. in the Conservatory. Children will help make the ornaments, and adults will work with garlands and other decorations. Mr. Santa has promised to show up and we

have reason also to expect Mrs. Santa. Refreshments will be served. Join us for the fun.

EVERGREEN WREATHS AND GARLANDS will be put in place on the outside of Botanic Gardens House again this year by Denver Botanic Gardens Guild members.

CALENDAR OF EVENTS

December, 1968

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| 5) | 10:00 a.m.-3:00 p.m. | Gift Shop Workshop — Main Room |
| | 8:00 p.m. | Colorado Mountain Club — Conservatory Garage |
| | 7:00-10:00 p.m. | Denver Orchid Society — Main Room |
| 6) | 12:00 noon | Civic Garden Club — Main and Dining Rooms |
| | 7:00 p.m. | Associates' Decorating Party — Conservatory |
| 9) | 7:30 p.m. | Colorado Mycological Society — Main Room |
| 10) | 10:00 a.m. | Herbarium Committee — Herbarium |
| | | Editorial Committee (no meeting) |
| 11) | 9:00 a.m.-5:00 p.m. | Herb Vinegar pick-up — Conservatory |
| | 7:30 p.m. | Colorado Mountain Club Lecture — Main Room |
| 12) | 8:00 p.m. | Colorado Mountain Club Lecture — Conservatory Garage |
| 13) | 7:30 p.m. | Denver Dahlia Society — Main Room |
| 18) | 9:30 a.m.-1:00 p.m. | Garden Club of Denver — Main Room |
| 19) | 9:30-2:30 p.m. | Around the Seasons — Main and Dining Rooms |
| | 8:00 p.m. | Colorado Mountain Club — Conservatory Garage |
| 20) | | Botany Club (No meeting) |
| | 7:30 p.m. | Men's Garden Club — South Room, Conservatory |
| 22) | 2:00 p.m. | Colorado Cactophiles — Main Room |
| 25) | CHRISTMAS DAY | Botanic Gardens House, 909 York St. — Closed |
| | | Boettcher Memorial Conservatory, 1005 York St. — Closed |
| | | Botanic Gardens House, 909 York St. — Closed |
| | | Boettcher Memorial Conservatory, 1005 York St. — Open |

January 1, 1969



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